

【ECO-Design Efficiency Measurement Result】

Series	Q2V EMC (HD)	Maximum °C Operating Temperature()	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)
	Q2V□□□□□□*	50	50/60	200-240/ 380-480

*1 Cooling Fan OFF (Only Loss[W] is listed)

*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Single-Phase 200V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))											
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)			
															Fan OFF *1	Fan ON *2
8001	0.3	0.1	0.8	Loss[W]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Loss[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Efficiency[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8002	0.6	0.2	1.6	Loss[W]	15.1	13.5	12.9	11.7	11.1	10.8	11.0	10.8	10.8	4.2	N/A	
				Loss[%]	5.1	7.4	10.3	7.9	11.0	14.6	11.8	16.7	N/A	N/A		
				Efficiency[%]	94.9	92.6	89.7	92.1	89.0	85.4	88.2	83.3	N/A	N/A		
8004	1.1	0.4	3	Loss[W]	29.9	22.2	18.7	20.7	17.3	15.2	16.6	15.1	4.1	N/A		
				Loss[%]	4.1	5.1	7.9	4.5	6.4	10.7	6.7	11.2	N/A	N/A		
				Efficiency[%]	95.9	94.9	92.1	95.5	93.6	89.3	93.3	88.8	N/A	N/A		
8006	1.9	0.75	5	Loss[W]	44.1	38.1	33.7	35.0	29.8	26.4	28.9	26.0	4.6	N/A		
				Loss[%]	3.0	3.8	5.6	3.1	4.1	6.1	4.1	6.3	N/A	N/A		
				Efficiency[%]	97.0	96.2	94.4	96.9	95.9	93.9	95.9	93.7	N/A	N/A		
8010	3	1.5	8	Loss[W]	72.2	58.9	51.2	44.7	38.1	35.9	30.3	29.4	5.7	8.1		
				Loss[%]	3.4	4.6	7.1	3.8	5.6	9.8	7.7	13.9	N/A	N/A		
				Efficiency[%]	96.6	95.4	92.9	96.2	94.5	90.2	92.3	86.1	N/A	N/A		
8012	4.2	2.2	11	Loss[W]	100.7	78.6	69.7	61.6	50.8	47.4	41.0	37.7	5.9	9.0		
				Loss[%]	3.2	4.0	6.4	3.2	4.5	8.0	5.7	10.1	N/A	N/A		
				Efficiency[%]	96.8	96.0	93.6	96.8	95.5	92.0	94.3	89.9	N/A	N/A		

Three-Phase 200V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))										
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)		
															Fan OFF *1
2001	0.3	0.1	0.8	Loss[W]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Loss[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Efficiency[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2002	0.6	0.2	1.6	Loss[W]	12.6	11.5	10.9	10.1	9.6	9.7	9.6	9.3	3.7	N/A	
				Loss[%]	4.3	6.2	8.8	6.8	9.6	13.1	10.1	14.3	N/A	N/A	
				Efficiency[%]	95.7	93.8	91.2	93.2	90.4	86.9	89.9	85.7	N/A	N/A	
2004	1.1	0.4	3	Loss[W]	24.2	20.9	19.6	18.4	16.8	16.0	16.5	16.1	3.8	N/A	
				Loss[%]	3.5	5.2	8.0	4.3	6.9	10.1	7.2	10.8	N/A	N/A	
				Efficiency[%]	96.5	94.8	92.0	95.7	93.1	89.9	92.8	89.2	N/A	N/A	
2006	1.9	0.75	5	Loss[W]	44.9	37.6	31.6	35.1	28.8	25.9	28.7	25.8	3.7	4.7	
				Loss[%]	3.0	3.7	5.4	3.1	4.0	6.2	4.1	6.5	N/A	N/A	
				Efficiency[%]	97.0	96.3	94.6	96.9	96.0	93.8	95.9	93.5	N/A	N/A	
2008	2.6	1.1	6.9	Loss[W]	62.9	53.6	46.7	41.9	36.6	33.3	30.4	27.9	5.8	8.0	
				Loss[%]	3.0	3.9	5.9	3.2	4.6	7.4	5.5	9.1	N/A	N/A	
				Efficiency[%]	97.0	96.1	94.1	96.8	95.4	92.6	94.5	90.9	N/A	N/A	
2010	3	1.5	8	Loss[W]	72.4	61.9	53.7	47.4	41.0	37.3	33.7	31.7	5.6	7.3	
				Loss[%]	2.9	3.7	5.2	2.9	4.0	6.1	4.5	7.3	N/A	N/A	
				Efficiency[%]	97.1	96.3	94.8	97.1	96.0	93.9	95.5	92.7	N/A	N/A	
2012	4.2	2.2	11	Loss[W]	90.7	78.2	67.9	59.6	51.0	43.9	39.4	23.9	5.9	7.8	
				Loss[%]	2.8	4.0	6.3	3.1	4.6	7.5	5.5	6.5	N/A	N/A	
				Efficiency[%]	97.2	96.0	93.7	96.9	95.4	92.5	94.5	93.5	N/A	N/A	
2018	5.3	3	14	Loss[W]	126.6	107.6	94.2	82.3	72.2	63.8	57.4	53.6	4.9	7.9	
				Loss[%]	2.9	3.9	5.9	3.0	4.3	6.8	4.7	8.1	N/A	N/A	
				Efficiency[%]	97.1	96.1	94.1	97.0	95.7	93.2	95.3	91.9	N/A	N/A	
2021	6.7	3.7	17.6	Loss[W]	150.1	123.2	108.6	96.7	85.3	72.4	66.4	57.7	5.0	7.9	
				Loss[%]	3.0	4.1	6.9	3.1	4.8	8.0	5.5	9.8	N/A	N/A	
				Efficiency[%]	97.0	95.9	93.1	96.9	95.2	92.0	94.5	90.2	N/A	N/A	
2030	9.5	5.5	25	Loss[W]	211.1	202.6	159.9	138.9	126.8	110.5	97.8	89.3	8.2	17.7	
				Loss[%]	3.1	5.5	9.1	3.6	6.2	11.9	8.6	16.7	N/A	N/A	
				Efficiency[%]	96.9	94.5	90.9	96.4	93.8	88.1	91.4	83.3	N/A	N/A	
2042	12.6	7.5	33	Loss[W]	287.8	242.4	225.0	158.7	139.9	129.0	107.3	99.0	7.9	19.0	
				Loss[%]	2.8	3.8	5.8	2.8	4.0	6.5	4.5	7.5	N/A	N/A	
				Efficiency[%]	97.2	96.2	94.2	97.2	96.0	93.5	95.5	92.5	N/A	N/A	
2056	17.9	11	47	Loss[W]	450.6	352.2	307.1	227.5	193.7	174.9	145.5	127.9	8.6	19.8	
				Loss[%]	3.1	4.0	6.3	3.1	4.5	7.8	5.9	10.3	N/A	N/A	
				Efficiency[%]	96.9	96.0	93.7	96.9	95.5	92.3	94.1	89.7	N/A	N/A	
2070	22.9	15	60	Loss[W]	621.4	470.9	422.2	312.5	251.3	228.6	185.9	170.6	10.9	23.8	
				Loss[%]	3.3	4.2	6.4	3.1	4.2	6.8	4.6	7.8	N/A	N/A	
				Efficiency[%]	96.7	95.9	93.6	96.9	95.8	93.2	95.4	92.2	N/A	N/A	
2082	28.6	18.5	75	Loss[W]	755.0	623.0	558.0	394.0	327.0	308.0	253.0	227.0	14.0	24.0	
				Loss[%]	3.3	4.4	6.8	3.1	4.3	7.3	4.9	8.0	N/A	N/A	
				Efficiency[%]	96.7	95.6	93.2	96.9	95.7	92.7	95.1	92.0	N/A	N/A	

Three-Phase 400V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
4001	0.9	0.2	1.2	Loss[W]	27.6	27.1	26.4	25.0	24.4	24.3	23.7	24.7	6.0	N/A
				Loss[%]	4.3	6.8	11.2	6.2	9.5	13.7	9.8	14.4	N/A	N/A
				Efficiency[%]	95.7	93.2	88.8	93.8	90.5	86.3	90.2	85.6	N/A	N/A
4002	1.4	0.4	1.8	Loss[W]	36.0	35.2	36.0	32.8	31.9	31.8	31.7	31.8	8.0	N/A
				Loss[%]	3.8	6.2	10.4	5.3	8.7	13.7	9.1	14.3	N/A	N/A
				Efficiency[%]	96.2	93.8	89.6	94.7	91.3	86.3	90.9	85.7	N/A	N/A
4004	2.6	0.75	3.4	Loss[W]	56.0	51.1	49.7	44.9	43.8	42.8	42.9	40.0	7.2	N/A
				Loss[%]	2.7	3.9	6.3	2.8	4.5	7.7	4.6	7.5	N/A	N/A
				Efficiency[%]	97.3	96.1	93.7	97.2	95.5	92.3	95.4	92.5	N/A	N/A
4005	3.7	1.5	4.8	Loss[W]	71.1	67.9	63.2	51.6	48.4	47.3	42.8	44.5	7.0	10.0
				Loss[%]	2.3	3.4	4.9	2.4	3.6	5.8	4.2	7.5	N/A	N/A
				Efficiency[%]	97.7	96.6	95.1	97.6	96.4	94.2	95.8	92.5	N/A	N/A
4007	4.3	2.2	5.6	Loss[W]	81.8	73.3	70.7	61.9	53.1	53.8	48.5	46.4	7.3	10.1
				Loss[%]	2.5	3.8	6.9	3.2	4.9	9.6	7.1	13.2	N/A	N/A
				Efficiency[%]	97.5	96.2	93.1	96.8	95.1	90.4	92.9	86.8	N/A	N/A
4009	5.6	3	7.3	Loss[W]	105.1	90.4	89.1	74.6	68.0	64.9	54.8	55.6	6.3	8.9
				Loss[%]	2.8	4.4	8.7	3.7	6.4	12.2	9.4	20.7	N/A	N/A
				Efficiency[%]	97.2	95.6	91.3	96.3	93.6	87.8	90.6	79.3	N/A	N/A
4012	7	3.7	9.2	Loss[W]	154.1	111.3	111.8	96.6	74.3	76.1	81.8	67.0	7.5	10.4
				Loss[%]	2.9	3.7	7.5	3.0	4.3	9.2	7.0	12.3	N/A	N/A
				Efficiency[%]	97.1	96.3	92.5	97.0	95.7	90.8	93.0	87.7	N/A	N/A
4018	11.3	5.5	14.8	Loss[W]	198.9	176.3	158.1	130.7	118.2	106.8	99.5	91.6	9.4	16.5
				Loss[%]	2.4	3.8	7.2	2.6	4.3	8.5	5.3	10.9	N/A	N/A
				Efficiency[%]	97.6	96.2	92.8	97.4	95.7	91.5	94.7	89.1	N/A	N/A
4023	13.7	7.5	18	Loss[W]	255.6	233.9	216.1	143.9	128.1	119.2	95.1	88.0	10.8	16.5
				Loss[%]	2.4	3.8	6.8	2.7	4.2	8.1	5.4	11.1	N/A	N/A
				Efficiency[%]	97.6	96.2	93.2	97.3	95.8	91.9	94.6	88.9	N/A	N/A
4031	18.3	11	24	Loss[W]	331.9	291.5	274.3	186.8	168.0	162.2	132.8	121.0	14.4	26.5
				Loss[%]	2.2	3.2	5.5	2.5	3.8	6.9	4.9	8.8	N/A	N/A
				Efficiency[%]	97.8	96.8	94.5	97.5	96.2	93.1	95.1	91.2	N/A	N/A
4038	23.6	15	31	Loss[W]	424.8	350.3	338.5	233.1	203.4	186.4	156.5	147.4	14.5	27.6
				Loss[%]	2.2	3.0	4.9	2.2	3.2	5.3	3.7	6.5	N/A	N/A
				Efficiency[%]	97.8	97.0	95.1	97.8	96.8	94.7	96.3	93.5	N/A	N/A
4044	29.7	18.5	39	Loss[W]	516.2	441.2	436.0	273.1	251.1	241.3	186.3	183.8	13.6	27.5
				Loss[%]	2.4	3.4	5.6	2.3	3.6	6.2	4.0	7.2	N/A	N/A
				Efficiency[%]	97.6									

[ECO-Design Efficiency Measurement Result]

Series	Q2V EMC (ND)	Maximum α C Operating Temperature()	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)
	Q2VxxxxA*	50	50/60	200-240/ 380-480

*1 Cooling Fan OFF (Only Loss[W] is listed)

*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Single-Phase 200V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))						(0,0)			
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2
B001	0.5	0.2	1.2	Loss[W]	12.7	10.6	9.3	9.5	8.6	8.2	8.4	7.8	4.0	N/A
				Loss[%]	4.4	5.9	8.2	5.3	7.8	11.6	8.0	11.8	N/A	N/A
				Efficiency[%]	95.6	94.1	91.8	94.7	92.2	88.4	92.0	88.2	N/A	N/A
B002	0.7	0.4	1.9	Loss[W]	17.5	14.8	13.1	13.8	11.8	11.0	11.6	10.8	4.8	N/A
				Loss[%]	3.8	5.4	8.2	4.7	6.9	11.0	7.3	11.6	N/A	N/A
				Efficiency[%]	96.2	94.6	91.8	95.3	93.1	89.0	92.7	88.4	N/A	N/A
B004	1.3	0.75	3.5	Loss[W]	36.8	25.4	20.2	23.9	18.9	16.2	18.3	15.1	4.2	N/A
				Loss[%]	4.0	4.5	6.4	3.7	5.0	7.8	5.1	7.7	N/A	N/A
				Efficiency[%]	96.0	95.5	93.6	96.3	95.0	92.2	94.9	92.3	N/A	N/A
B006	2.3	1.1	6	Loss[W]	51.4	39.3	33.6	32.9	26.2	23.0	21.8	19.4	5.4	N/A
				Loss[%]	2.9	3.6	5.2	3.1	4.1	6.3	5.1	8.2	N/A	N/A
				Efficiency[%]	97.1	96.4	94.8	96.9	95.9	93.7	94.9	91.8	N/A	N/A
B010	3.7	2.2	9.6	Loss[W]	88.4	68.6	53.6	51.1	42.7	35.0	30.4	36.6	6.9	9.3
				Loss[%]	3.4	4.3	6.3	3.6	5.1	8.7	6.6	15.8	N/A	N/A
				Efficiency[%]	96.6	95.7	93.7	96.4	94.9	91.3	93.4	84.2	N/A	N/A
B012	4.6	3	12.2	Loss[W]	109.7	83.8	70.7	64.5	54.4	45.7	41.6	37.8	5.7	9.6
				Loss[%]	3.1	3.8	5.4	2.9	4.0	6.1	4.4	7.3	N/A	N/A
				Efficiency[%]	96.9	96.2	94.6	97.1	96.0	93.9	95.6	92.7	N/A	N/A

Three-Phase 200V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))						(0,0)			
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2
2001	0.5	0.2	1.2	Loss[W]	10.1	9.1	8.5	7.9	7.5	7.3	7.3	7.2	3.7	N/A
				Loss[%]	3.8	5.3	7.9	5.1	7.8	11.9	8.3	12.4	N/A	N/A
				Efficiency[%]	96.2	94.7	92.1	94.9	92.2	88.1	91.7	87.6	N/A	N/A
2002	0.7	0.4	1.9	Loss[W]	13.5	12.3	11.4	11.0	10.1	9.6	9.7	9.4	3.8	N/A
				Loss[%]	2.9	4.4	7.0	3.6	5.5	9.2	5.7	9.6	N/A	N/A
				Efficiency[%]	97.1	95.6	93.0	96.4	94.5	90.8	94.3	90.4	N/A	N/A
2004	1.3	0.75	3.5	Loss[W]	25.7	22.4	19.0	20.6	17.2	15.6	16.3	15.2	3.6	N/A
				Loss[%]	2.7	3.9	5.9	3.1	4.4	7.2	4.4	7.4	N/A	N/A
				Efficiency[%]	97.3	96.1	94.1	96.9	95.6	92.8	95.6	92.6	N/A	N/A
2006	2.3	1.1	6	Loss[W]	48.5	39.0	32.7	29.9	25.7	22.3	19.9	18.4	3.5	5.0
				Loss[%]	2.7	3.5	5.1	2.9	4.1	6.3	4.6	7.9	N/A	N/A
				Efficiency[%]	97.3	96.5	94.9	97.1	95.9	93.7	95.4	92.1	N/A	N/A
2008	3	1.5	8	Loss[W]	60.5	53.1	47.1	39.6	35.6	31.9	27.8	26.1	5.7	8.0
				Loss[%]	2.9	4.2	6.8	3.6	5.6	9.6	8.7	15.1	N/A	N/A
				Efficiency[%]	97.1	95.8	93.2	96.4	94.4	90.4	91.3	84.9	N/A	N/A
2010	3.7	2.2	9.6	Loss[W]	79.9	65.4	53.3	48.0	43.0	44.3	33.4	32.2	5.5	8.0
				Loss[%]	3.0	4.1	6.3	3.4	5.3	11.7	7.4	13.7	N/A	N/A
				Efficiency[%]	97.0	95.9	93.7	96.6	94.7	88.3	92.6	86.3	N/A	N/A
2012	4.6	3	12.2	Loss[W]	96.5	78.4	68.2	59.3	53.1	46.5	39.8	36.8	5.7	7.8
				Loss[%]	2.6	3.4	5.2	2.6	3.9	6.2	4.2	7.4	N/A	N/A
				Efficiency[%]	97.4	96.6	94.8	97.4	96.1	93.8	95.8	92.6	N/A	N/A
2018	6.7	3.7	17.5	Loss[W]	125.1	104.4	87.4	81.2	67.3	57.2	51.3	47.1	4.0	7.6
				Loss[%]	2.5	3.5	5.7	2.7	3.8	6.6	4.4	8.3	N/A	N/A
				Efficiency[%]	97.5	96.5	94.3	97.3	96.2	93.4	95.6	91.7	N/A	N/A
2021	8	5.5	21	Loss[W]	137.1	137.8	105.0	89.4	70.7	61.9	64.4	33.1	4.1	7.8
				Loss[%]	2.6	4.5	6.8	2.9	4.1	10.0	6.1	8.6	N/A	N/A
				Efficiency[%]	97.4	95.5	93.2	97.1	95.9	90.0	93.9	91.4	N/A	N/A
2030	11.4	7.5	30	Loss[W]	257.1	188.9	176.3	119.7	122.5	93.0	75.0	65.4	8.1	14.6
				Loss[%]	3.0	3.8	6.9	2.8	5.5	9.0	7.4	17.2	N/A	N/A
				Efficiency[%]	97.0	96.2	93.1	97.0	94.5	91.0	92.6	82.8	N/A	N/A
2042	16	11	42	Loss[W]	354.5	288.4	251.6	176.2	153.2	136.6	108.2	103.7	8.5	18.9
				Loss[%]	2.9	3.7	5.5	2.9	4.1	6.6	5.3	9.8	N/A	N/A
				Efficiency[%]	97.1	96.3	94.5	97.1	95.9	93.4	94.7	90.2	N/A	N/A
2056	21.3	15	56	Loss[W]	492.0	377.8	318.1	240.5	196.4	174.5	140.1	139.1	7.9	20.3
				Loss[%]	2.8	3.6	5.2	2.6	3.5	5.7	3.9	7.3	N/A	N/A
				Efficiency[%]	97.2	96.4	94.8	97.4	96.5	94.3	96.1	92.7	N/A	N/A
2070	26.7	18.5	70	Loss[W]	655.6	500.2	441.0	317.4	269.8	221.0	187.3	164.7	11.3	24.0
				Loss[%]	3.1	3.9	6.0	2.7	3.9	5.9	4.1	6.7	N/A	N/A
				Efficiency[%]	96.9	96.1	94.0	97.3	96.1	94.1	95.9	93.3	N/A	N/A
2082	31.2	22	82	Loss[W]	778.0	599.0	516.0	382.0	317.0	269.0	229.0	210.0	13.0	27.0
				Loss[%]	3.1	3.9	5.8	2.7	3.8	5.8	3.9	6.6	N/A	N/A
				Efficiency[%]	96.9	96.1	94.2	97.3	96.2	94.2	96.1	93.4	N/A	N/A

Three-Phase 400V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))						(0,0)			
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2
4001	0.9	0.4	1.2	Loss[W]	18.1	17.5	16.6	15.6	15.3	14.9	15.6	14.5	6.1	N/A
				Loss[%]	2.8	4.4	7.0	3.6	5.9	9.7	6.2	9.9	N/A	N/A
				Efficiency[%]	97.2	95.6	93.0	96.4	94.1	90.3	93.8	90.1	N/A	N/A
4002	1.6	0.75	2.1	Loss[W]	28.0	26.2	25.1	22.8	21.8	22.3	21.9	21.5	7.8	N/A
				Loss[%]	2.3	3.5	5.9	2.6	4.2	7.6	4.5	7.7	N/A	N/A
				Efficiency[%]	97.7	96.5	94.1	97.4	95.8	92.4	95.5	92.3	N/A	N/A
4004	3.1	1.5	4.1	Loss[W]	47.9	42.4	38.9	36.3	32.3	27.1	25.6	25.7	7.0	N/A
				Loss[%]	1.8	2.5	3.7	2.1	3.0	4.4	3.3	5.7	N/A	N/A
				Efficiency[%]	98.2	97.5	96.3	97.9	97.0	95.6	96.7	94.3	N/A	N/A
4005	4.1	2.2	5.4	Loss[W]	59.6	48.4	45.9	41.3	36.8	32.7	31.6	30.6	7.4	10.3
				Loss[%]	1.9	2.7	4.9	2.4	3.7	6.6	5.2	9.7	N/A	N/A
				Efficiency[%]	98.1	97.3	95.1	97.6	96.3	93.4	94.8	90.3	N/A	N/A
4007	5.4	3	7.1	Loss[W]	86.0	70.3	64.8	56.6	48.7	43.6	42.6	37.8	7.1	9.7
				Loss[%]	1.9	2.6	4.2	2.0	2.9	4.9	3.5	6.0	N/A	N/A
				Efficiency[%]	98.1	97.4	95.8	98.0	97.1	95.1	96.5	94.0	N/A	N/A
4009	6.8	3.7	8.9	Loss[W]	104.9	87.2	73.6	66.3	56.6	50.6	46.3	45.7	6.9	9.0
				Loss[%]	2.1	3.0	5.2	2.2	3.4	6.6	4.2	9.1	N/A	N/A
				Efficiency[%]	97.9	97.0	94.8	97.8	96.6	93.4	95.8	90.9	N/A	N/A
4012	9.1	5.5	11.9	Loss[W]	128.2	109.9	100.4	85.6	70.1	67.4	58.8	55.3	6.7	10.2
				Loss[%]	2.2	3.4	6.9	2.7	4.3	9.2	6.9	18.4	N/A	N/A
				Efficiency[%]	97.8	96.6	93.1	97.3	95.7	90.8	93.1	81.6	N/A	N/A
4018	13.3	7.5	17.5	Loss[W]	199.2	170.2	149.7	102.3	95.6	81.7	67.5	62.7	10.6	17.1
				Loss[%]	1.9	2.8	4.9	2.0	3.3	6.1	4.0	8.8	N/A	N/A
				Efficiency[%]	98.1	97.2	95.1	98.0	96.7	93.9	96.0	91.2	N/A	N/A
4023	17.8	11	23.4	Loss[W]	308.6	245.4	212.1	151.4	126.3	109.3	89.9	83.7	12.6	19.3
				Loss[%]	2.2	2.8	4.5	2.1	3.0	5.0	3.7	6.8	N/A	N/A
				Efficiency[%]	97.8	97.2	95.5	97.9	97.0	95.0	96.3	93.2	N/A	N/A
4031	23.6	15	31	Loss[W]	378.8	301.2	264.0	196.4	164.5	144.2	123.5	122.8	14.7	25.8
				Loss[%]	2.0	2.6	3.9							

【ECO-Design Efficiency Measurement Result】

Series	Q2V (HD)	Maximum Operating Temperature(℃)	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)
	Q2V□□□□□B*	50	50/60	200-240/ 380-480

*1 Cooling Fan OFF (Only Loss[W] is listed)

*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Single-Phase 200V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))							(0,0)		
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2
					Loss[W]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Loss[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Efficiency[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
B001	0.3	0.1	0.8	Loss[W]	13.8	12.1	11.6	10.4	9.9	10.1	9.6	9.5	3.8	N/A
B002	0.6	0.2	1.6	Loss[%]	4.8	6.8	9.6	7.4	10.4	14.9	11.3	16.5	N/A	N/A
				Efficiency[%]	95.2	93.2	90.4	92.6	89.6	85.1	88.7	83.5	N/A	N/A
B004	1.1	0.4	3	Loss[W]	25.9	20.5	17.7	18.0	15.2	13.5	15.2	14.6	3.6	N/A
				Loss[%]	3.6	4.8	7.6	3.9	5.8	9.7	6.3	11.1	N/A	N/A
				Efficiency[%]	96.4	95.2	92.4	96.1	94.2	90.3	93.7	88.9	N/A	N/A
B006	1.9	0.75	5	Loss[W]	43.8	37.3	32.5	33.7	28.6	25.3	27.5	24.9	4.5	N/A
				Loss[%]	3.0	3.8	5.5	3.0	3.9	5.9	3.9	6.0	N/A	N/A
				Efficiency[%]	97.0	96.2	94.5	97.0	96.1	94.1	96.1	94.0	N/A	N/A
B010	3	1.5	8	Loss[W]	70.0	58.2	52.0	43.3	37.6	34.2	30.4	27.2	5.0	7.7
				Loss[%]	3.3	4.5	7.2	3.7	5.5	9.3	7.5	14.2	N/A	N/A
				Efficiency[%]	96.7	95.5	92.8	96.3	94.5	90.7	92.5	85.8	N/A	N/A
B012	4.2	2.2	11	Loss[W]	97.4	78.9	68.3	58.3	51.2	40.6	38.9	15.0	5.0	8.1
				Loss[%]	3.1	4.0	6.3	3.1	4.6	6.9	5.4	4.4	N/A	N/A
				Efficiency[%]	96.9	96.0	93.7	96.9	95.4	93.1	94.6	95.6	N/A	N/A
B018	6.7	3.7	17.6	Loss[W]	262.4	165.5	122.2	138.8	97.6	77.2	73.0	61.7	5.8	8.9
				Loss[%]	5.1	5.5	7.9	4.6	5.6	8.9	6.3	11.2	N/A	N/A
				Efficiency[%]	94.9	94.5	92.1	95.4	94.4	91.1	93.7	88.8	N/A	N/A

Three-Phase 200V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))							(0,0)		
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2
					Loss[W]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Loss[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Efficiency[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
2001	0.3	0.1	0.8	Loss[W]	13.0	11.6	11.3	10.7	9.9	10.2	9.7	9.7	3.6	N/A
				Loss[%]	4.2	6.1	9.1	6.2	9.3	13.3	9.8	13.9	N/A	N/A
				Efficiency[%]	95.8	93.9	90.9	93.8	90.7	86.7	90.2	86.1	N/A	N/A
2002	0.6	0.2	1.6	Loss[W]	23.1	19.7	18.7	17.4	15.7	14.9	15.8	15.7	3.6	N/A
				Loss[%]	3.3	5.0	7.7	4.1	6.4	9.6	7.0	10.6	N/A	N/A
				Efficiency[%]	96.7	95.0	92.3	95.9	93.6	90.4	93.0	89.4	N/A	N/A
2004	1.1	0.4	3	Loss[W]	41.1	35.6	30.8	33.0	28.6	25.3	28.0	24.8	3.5	5.0
				Loss[%]	2.7	3.6	5.2	2.9	3.9	6.1	4.0	6.2	N/A	N/A
				Efficiency[%]	97.3	96.4	94.8	97.1	96.1	93.9	96.0	93.8	N/A	N/A
2006	1.9	0.75	5	Loss[W]	62.6	54.7	46.4	40.7	35.1	32.7	29.1	27.0	5.6	8.2
				Loss[%]	2.9	4.0	5.8	3.1	4.4	7.2	5.2	8.7	N/A	N/A
				Efficiency[%]	97.1	96.0	94.2	96.9	95.6	92.8	94.8	91.3	N/A	N/A
2010	3	1.5	8	Loss[W]	67.4	58.2	51.1	43.7	38.9	36.3	32.1	29.9	5.6	8.0
				Loss[%]	3.2	4.6	7.3	4.0	6.1	10.5	9.6	16.6	N/A	N/A
				Efficiency[%]	96.8	95.4	92.7	96.0	93.9	89.5	90.4	83.4	N/A	N/A
2012	4.2	2.2	11	Loss[W]	93.8	77.0	68.4	58.7	52.3	47.6	40.8	40.3	5.7	8.4
				Loss[%]	2.9	3.9	6.3	3.1	4.7	8.0	5.6	10.7	N/A	N/A
				Efficiency[%]	97.1	96.1	93.7	96.9	95.3	92.0	94.4	89.3	N/A	N/A
2018	5.3	3	14	Loss[W]	109.7	96.3	83.5	72.9	60.4	57.3	50.4	49.2	4.9	7.9
				Loss[%]	3.0	4.6	7.9	3.6	5.4	11.8	8.1	18.1	N/A	N/A
				Efficiency[%]	97.0	95.4	92.1	96.4	94.6	88.2	91.9	81.9	N/A	N/A
2021	6.7	3.7	17.6	Loss[W]	136.6	127.2	108.6	82.6	80.7	74.2	69.0	60.3	5.8	8.3
				Loss[%]	2.7	4.2	6.9	2.7	4.5	8.3	5.7	10.3	N/A	N/A
				Efficiency[%]	97.3	95.8	93.1	97.3	95.5	91.7	94.3	89.7	N/A	N/A
2030	9.5	5.5	25	Loss[W]	213.5	193.1	162.5	137.1	123.9	110.1	94.5	89.0	8.4	13.9
				Loss[%]	3.2	5.1	9.0	3.5	6.0	11.3	7.9	15.8	N/A	N/A
				Efficiency[%]	96.8	94.9	91.0	96.5	94.0	88.7	92.1	84.2	N/A	N/A
2042	12.6	7.5	33	Loss[W]	285.1	238.5	221.9	157.6	137.1	130.4	106.5	97.5	8.2	20.4
				Loss[%]	2.8	3.7	5.8	2.7	3.9	6.5	4.5	7.3	N/A	N/A
				Efficiency[%]	97.2	96.3	94.2	97.3	96.1	93.5	95.5	92.7	N/A	N/A
2056	17.9	11	47	Loss[W]	455.1	366.1	322.2	236.7	195.9	175.2	152.2	133.7	8.7	21.0
				Loss[%]	3.1	4.2	6.5	3.2	4.6	7.7	6.1	10.5	N/A	N/A
				Efficiency[%]	96.9	95.8	93.5	96.8	95.4	92.3	93.9	89.5	N/A	N/A
2070	22.9	15	60	Loss[W]	625.8	481.9	430.9	313.9	253.1	232.5	190.4	171.5	10.4	24.1
				Loss[%]	3.4	4.3	6.6	3.1	4.2	6.9	4.7	7.8	N/A	N/A
				Efficiency[%]	96.6	95.7	93.4	96.9	95.8	93.1	95.3	92.2	N/A	N/A
2082	28.6	18.5	75	Loss[W]	761.0	613.0	560.0	388.0	322.0	303.0	252.0	218.0	13.0	24.0
				Loss[%]	3.3	4.4	6.9	3.0	4.3	7.2	4.9	7.8	N/A	N/A
				Efficiency[%]	96.7	95.6	93.1	97.0	95.7	92.8	95.1	92.2	N/A	N/A

Three-Phase 400V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))							(0,0)		
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2
					Loss[W]	26.2	25.0	24.5	23.9	22.2	22.8	22.4	22.3	6.1
Loss[%]	4.1	6.3	10.5	5.8	8.7	13.0	9.1	13.2	N/A	N/A				
Efficiency[%]	95.9	93.7	89.5	94.2	91.3	87.0	90.9	86.8	N/A	N/A				
4001	0.9	0.2	1.2	Loss[W]	33.9	32.2	35.9	30.2	27.3	24.4	28.0	15.3	5.7	N/A
				Loss[%]	3.5	5.6	11.0	4.6	7.2	11.3	7.8	7.3	N/A	N/A
				Efficiency[%]	96.5	94.4	89.0	95.4	92.8	88.7	92.2	92.7	N/A	N/A
4002	1.4	0.4	1.8	Loss[W]	52.0	51.4	47.7	47.8	39.6	48.5	48.9	47.3	5.3	N/A
				Loss[%]	2.4	3.6	5.3	2.8	3.6	6.9	4.5	7.0	N/A	N/A
				Efficiency[%]	97.6	96.4	94.7	97.2	96.4	93.1	95.5	93.0	N/A	N/A
4004	2.6	0.75	3.4	Loss[W]	71.0	67.7	61.4	53.6	49.0	47.4	39.9	40.8	6.1	9.0
				Loss[%]	2.5	4.0	6.6	3.4	5.4	9.5	7.0	12.9	N/A	N/A
				Efficiency[%]	97.5	96.0	93.4	96.6	94.6	90.5	93.0	87.1	N/A	N/A
4007	4.3	2.2	5.6	Loss[W]	80.9	76.1	71.6	61.5	56.0	54.2	47.2	38.3	5.8	9.1
				Loss[%]	2.5	4.0	7.1	3.3	5.3	10.1	7.2	12.5	N/A	N/A
				Efficiency[%]	97.5	96.0	92.9	96.7	94.7	89.9	92.8	87.5	N/A	N/A
4009	5.6	3	7.3	Loss[W]	99.2	88.2	97.4	70.5	66.1	67.8	54.4	52.5	6.1	9.1
				Loss[%]	2.7	4.4	9.7	3.7	6.4	13.8	10.0	24.3	N/A	N/A
				Efficiency[%]	97.3	95.6	90.3	96.3	93.6	86.2	90.0	75.7	N/A	N/A
4012	7	3.7	9.2	Loss[W]	126.1	118.2	108.0	89.2	76.2	77.9	65.0	62.6	6.2	8.6
				Loss[%]	2.4	3.9	7.2	2.8	4.3	9.2	5.5	11.2	N/A	N/A
				Efficiency[%]	97.6	96.1	92.8	97.2	95.7	90.8	94.5	88.8	N/A	N/A
4018	11.3	5.5	14.8	Loss[W]	200.8	164.1	161.9							

【ECO-Design Efficiency Measurement Result】

Series	Q2V (ND)	Maximum α C Operating Temperature()	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)
	Q2V□xxxxB*	50	50/60	200-240/ 380-480

*1 Cooling Fan OFF (Only Loss[W] is listed)

*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Single-Phase 200V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))							(0,0)		
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2
B001	0.5	0.2	1.2	Loss[W]	10.6	8.9	8.0	8.3	7.0	6.6	7.0	6.5	3.7	N/A
				Loss[%]	3.8	5.2	7.4	5.1	7.0	10.6	7.5	11.0	N/A	N/A
				Efficiency[%]	96.2	94.8	92.6	94.9	93.0	89.4	92.5	89.0	N/A	N/A
B002	0.7	0.4	1.9	Loss[W]	14.2	12.2	11.0	11.0	9.7	8.5	9.6	8.9	3.7	N/A
				Loss[%]	3.3	4.7	7.4	4.4	6.4	9.3	6.9	10.3	N/A	N/A
				Efficiency[%]	96.7	95.3	92.6	95.6	93.6	90.7	93.1	89.7	N/A	N/A
B004	1.3	0.75	3.5	Loss[W]	31.5	22.9	19.5	21.8	17.3	14.8	16.7	14.6	3.8	N/A
				Loss[%]	3.4	4.0	6.1	3.4	4.6	7.1	4.6	7.5	N/A	N/A
				Efficiency[%]	96.6	96.0	93.9	96.6	95.4	92.9	95.4	92.5	N/A	N/A
B006	2.3	1.1	6	Loss[W]	50.0	38.7	33.4	31.3	24.9	21.9	20.9	16.5	5.1	N/A
				Loss[%]	2.8	3.5	5.1	3.0	3.9	6.0	4.9	7.0	N/A	N/A
				Efficiency[%]	97.2	96.5	94.9	97.0	96.1	94.0	95.1	93.0	N/A	N/A
B010	3.7	2.2	9.6	Loss[W]	81.8	62.7	59.3	49.3	41.6	50.0	32.1	30.0	5.5	8.0
				Loss[%]	3.1	4.0	7.1	3.5	5.1	13.2	7.2	13.1	N/A	N/A
				Efficiency[%]	96.9	96.0	92.9	96.5	94.9	86.8	92.8	86.9	N/A	N/A
B012	4.6	3	12.2	Loss[W]	104.7	80.4	69.1	62.1	51.9	44.2	39.1	36.7	4.8	8.1
				Loss[%]	2.9	3.6	5.3	2.8	3.9	6.0	4.2	7.5	N/A	N/A
				Efficiency[%]	97.1	96.4	94.7	97.2	96.1	94.0	95.8	92.5	N/A	N/A

Three-Phase 200V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))							(0,0)		
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2
2001	0.5	0.2	1.2	Loss[W]	11.0	9.9	9.5	8.8	8.5	8.2	8.3	8.1	3.7	N/A
				Loss[%]	4.1	5.8	8.9	5.7	8.9	13.3	9.4	14.1	N/A	N/A
				Efficiency[%]	96.0	94.2	91.1	94.3	91.1	86.7	90.6	85.9	N/A	N/A
2002	0.7	0.4	1.9	Loss[W]	13.7	12.3	11.3	11.2	10.4	9.4	10.2	9.6	3.6	N/A
				Loss[%]	3.0	4.3	6.9	3.5	5.5	8.8	5.7	9.4	N/A	N/A
				Efficiency[%]	97.0	95.7	93.1	96.5	94.5	91.2	94.3	90.6	N/A	N/A
2004	1.3	0.75	3.5	Loss[W]	25.0	21.1	18.1	19.1	17.0	15.1	16.4	14.0	3.6	N/A
				Loss[%]	2.7	3.7	5.6	2.9	4.4	7.0	4.4	6.9	N/A	N/A
				Efficiency[%]	97.3	96.3	94.4	97.1	95.6	93.0	95.6	93.1	N/A	N/A
2006	2.3	1.1	6	Loss[W]	45.1	39.4	33.1	30.2	25.5	22.5	20.3	18.0	3.9	5.0
				Loss[%]	2.6	3.6	5.2	2.9	4.0	6.4	4.8	7.7	N/A	N/A
				Efficiency[%]	97.4	96.4	94.8	97.1	96.0	93.6	95.2	92.3	N/A	N/A
2008	3	1.5	8	Loss[W]	63.1	56.8	45.5	39.3	34.4	30.5	27.2	23.6	5.7	8.2
				Loss[%]	3.0	4.5	6.6	3.6	5.4	9.2	8.5	14.0	N/A	N/A
				Efficiency[%]	97.0	95.5	93.4	96.4	94.6	90.8	91.5	86.0	N/A	N/A
2010	3.7	2.2	9.6	Loss[W]	75.3	64.6	56.5	46.2	42.7	38.7	33.4	30.8	5.7	8.4
				Loss[%]	2.8	4.1	6.6	3.2	5.1	9.0	7.3	13.0	N/A	N/A
				Efficiency[%]	97.2	95.9	93.4	96.8	94.9	91.0	92.7	87.0	N/A	N/A
2012	4.6	3	12.2	Loss[W]	94.1	77.6	69.3	59.8	51.4	46.9	40.8	37.6	5.8	8.2
				Loss[%]	2.5	3.4	5.3	2.6	3.8	6.3	4.3	7.6	N/A	N/A
				Efficiency[%]	97.5	96.6	94.7	97.4	96.2	93.7	95.7	92.4	N/A	N/A
2018	6.7	3.7	17.5	Loss[W]	125.4	105.9	90.4	79.4	69.4	60.0	50.1	47.8	4.8	7.4
				Loss[%]	2.5	3.5	5.8	2.6	3.9	6.8	4.2	8.3	N/A	N/A
				Efficiency[%]	97.5	96.5	94.2	97.4	96.1	93.2	95.8	91.7	N/A	N/A
2021	8	5.5	21	Loss[W]	140.7	121.2	110.9	103.9	85.0	83.7	61.2	53.8	4.2	6.6
				Loss[%]	2.7	3.9	7.2	3.4	4.8	12.3	5.6	12.1	N/A	N/A
				Efficiency[%]	97.3	96.1	92.8	96.6	95.2	87.7	94.4	87.9	N/A	N/A
2030	11.4	7.5	30	Loss[W]	234.0	195.2	177.1	112.2	108.8	93.7	72.8	66.5	8.2	14.3
				Loss[%]	2.7	3.9	6.8	2.8	4.8	8.8	6.9	16.2	N/A	N/A
				Efficiency[%]	97.3	96.1	93.2	97.2	95.2	91.2	93.1	83.8	N/A	N/A
2042	16	11	42	Loss[W]	351.2	289.1	247.4	171.5	154.0	136.3	111.0	98.7	8.4	19.2
				Loss[%]	2.7	3.7	5.4	2.8	4.2	6.7	5.8	10.0	N/A	N/A
				Efficiency[%]	97.3	96.3	94.6	97.2	95.8	93.3	94.2	90.0	N/A	N/A
2056	21.3	15	56	Loss[W]	484.4	375.8	325.0	243.8	196.9	171.4	147.0	135.2	8.1	20.8
				Loss[%]	2.8	3.6	5.3	2.6	3.5	5.6	4.1	7.0	N/A	N/A
				Efficiency[%]	97.2	96.4	94.7	97.4	96.5	94.4	95.9	93.0	N/A	N/A
2070	26.7	18.5	70	Loss[W]	656.6	513.2	426.4	324.1	264.2	233.7	191.1	166.3	10.9	24.8
				Loss[%]	3.1	4.0	5.8	2.8	3.8	6.2	4.2	6.8	N/A	N/A
				Efficiency[%]	96.9	96.0	94.2	97.2	96.2	93.8	95.8	93.2	N/A	N/A
2082	31.2	22	82	Loss[W]	752.0	580.0	496.0	378.0	301.0	256.0	219.0	184.0	13.0	24.0
				Loss[%]	3.0	3.8	5.6	2.7	3.6	5.5	3.8	5.9	N/A	N/A
				Efficiency[%]	97.0	96.2	94.4	97.3	96.4	94.5	96.2	94.1	N/A	N/A

Three-Phase 400V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))							(0,0)		
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2
4001	0.9	0.4	1.2	Loss[W]	17.6	16.6	16.7	15.7	14.4	14.4	14.0	13.7	5.9	N/A
				Loss[%]	2.7	4.1	7.0	3.6	5.5	9.3	5.6	9.3	N/A	N/A
				Efficiency[%]	97.3	95.9	93.0	96.4	94.5	90.7	94.4	90.8	N/A	N/A
4002	1.6	0.75	2.1	Loss[W]	25.4	24.6	22.4	22.5	20.1	19.5	20.5	19.2	6.0	N/A
				Loss[%]	2.1	3.2	5.2	2.5	3.8	6.6	4.0	6.8	N/A	N/A
				Efficiency[%]	97.9	96.8	94.8	97.5	96.2	93.4	96.0	93.2	N/A	N/A
4004	3.1	1.5	4.1	Loss[W]	37.6	40.9	37.0	30.4	30.1	27.8	19.8	24.0	6.3	N/A
				Loss[%]	1.7	3.2	5.5	2.9	5.0	8.4	6.9	13.8	N/A	N/A
				Efficiency[%]	98.3	96.8	94.5	97.1	95.0	91.6	93.1	86.2	N/A	N/A
4005	4.1	2.2	5.4	Loss[W]	63.5	52.1	48.5	42.6	37.0	33.6	32.0	37.5	5.9	8.8
				Loss[%]	2.0	2.9	5.1	2.4	3.7	6.8	5.3	16.6	N/A	N/A
				Efficiency[%]	98.0	97.1	94.9	97.6	96.3	93.2	94.7	83.4	N/A	N/A
4007	5.4	3	7.1	Loss[W]	77.5	69.0	58.8	52.4	46.0	43.1	37.7	38.1	5.8	8.9
				Loss[%]	1.7	2.5	3.9	1.9	2.7	4.8	3.1	6.1	N/A	N/A
				Efficiency[%]	98.3	97.5	96.1	98.1	97.3	95.2	96.9	93.9	N/A	N/A
4009	6.8	3.7	8.9	Loss[W]	92.7	66.9	64.2	52.6	48.6	49.0	43.9	37.4	6.1	8.6
				Loss[%]	1.8	2.4	4.7	1.8	3.0	6.6	4.2	8.0	N/A	N/A
				Efficiency[%]	98.2	97.6	95.3	98.2	97.0	93.4	95.8	92.0	N/A	N/A
4012	9.1	5.5	11.9	Loss[W]	126.9	109.0	95.9	80.8	74.6	69.7	60.1	54.3	6.4	10.1
				Loss[%]	2.1	3.4	6.5	2.5	4.4	9.4	6.7	15.5	N/A	N/A
				Efficiency[%]	97.9	96.6	93.5	97.5	95.6	90.6	93.3	84.5	N/A	N/A
4018	13.3	7.5	17.5	Loss[W]	203.3	152.3	135.5	117.1	109.7	81.2	68.0	61.2	9.1	15.6
				Loss[%]	2.0	2.6	4.7	2.4	3.9	6.4	4.6	9.7	N/A	N/A
				Efficiency[%]	98.0	97.4	95.3	97.6	96.1	93.6	95.4	90.3	N/A	N/A
4023	17.8	11	23.4	Loss[W]	285.7	242.3	206.8	146.4	122.4	181.4	86.2	75.9	9.8	16.7
				Loss[%]	2.0	2.8	4.3	2.0	2.9	10.1	3.5	6.6	N/A	N/A
				Efficiency[%]	98.0	97.2	95.7	98.0	97.1	89.9	96.5	93.4	N/A	N/A
4031	23.6	15	31	Loss[W]	357.4	289.2	249.5	188.2	151.1	141.0	115.0	113.8	11.2	22.6
				Loss[%]	1.9	2.5	3.7	1						

[ECO-Design Efficiency Measurement Result]

Series	Q2A (HD)	Maximum Operating Temperature()	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)
	Q2AxxxxA*	50	50/60	200-240/ 380-480

Three-Phase 200V Class(HD)

*1 Cooling Fan Off (Only Loss[W] is listed)
*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency%), Torque Producing Current(%)								(0.0)	
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2
2004	1.2	0.4	3.2	Loss[W]	25.7	22.7	22.1	21.6	20.1	18.8	19.6	19.0	9.0	N/A
				Loss[%]	3.2	4.6	7.7	3.9	6.1	9.8	6.2	10.5	N/A	N/A
				Efficiency[%]	96.9	95.4	92.3	96.1	93.9	90.2	93.8	89.5	N/A	N/A
2006	1.9	0.75	5	Loss[W]	34.4	31.2	29.7	30.3	26.1	24.0	26.3	24.6	8.7	N/A
				Loss[%]	2.2	3.2	5.0	2.6	3.6	5.6	3.8	6.0	N/A	N/A
				Efficiency[%]	97.8	96.8	95.0	97.4	96.4	94.4	96.2	94.0	N/A	N/A
2008	2.6	1.1	6.9	Loss[W]	61.2	49.4	41.4	40.7	33.5	30.1	28.8	25.6	9.6	N/A
				Loss[%]	2.8	3.6	5.3	3.1	4.2	6.8	5.1	8.5	N/A	N/A
				Efficiency[%]	97.2	96.4	94.7	96.9	95.8	93.2	94.9	91.5	N/A	N/A
2010	3	1.5	8	Loss[W]	72.2	55.8	47.5	47.2	39.4	34.7	32.8	29.4	9.4	N/A
				Loss[%]	2.8	3.4	4.7	2.9	3.9	5.7	4.3	6.7	N/A	N/A
				Efficiency[%]	97.2	96.6	95.3	97.1	96.1	94.3	95.7	93.3	N/A	N/A
2012	4.2	2.2	11	Loss[W]	98.0	75.0	60.5	59.0	49.3	42.2	38.0	34.6	9.3	N/A
				Loss[%]	3.0	3.8	5.7	3.1	4.4	7.2	5.2	9.4	N/A	N/A
				Efficiency[%]	97.0	96.2	94.3	96.9	95.6	92.9	94.8	90.6	N/A	N/A
2018	5.3	3	14	Loss[W]	139.7	103.9	86.7	89.2	70.6	60.0	57.9	49.7	9.6	14.8
				Loss[%]	3.2	3.8	5.4	3.2	4.2	6.3	4.7	7.4	N/A	N/A
				Efficiency[%]	96.8	96.2	94.6	96.8	95.8	93.7	95.3	92.6	N/A	N/A
2021	6.7	3.7	17.5	Loss[W]	127.0	106.8	90.0	83.5	70.6	64.4	50.4	53.4	9.8	14.9
				Loss[%]	2.6	3.6	5.8	2.8	4.0	7.2	4.1	9.0	N/A	N/A
				Efficiency[%]	97.4	96.4	94.2	97.2	96.0	92.8	95.9	91.0	N/A	N/A
2030	9.5	5.5	25	Loss[W]	203.4	171.6	150.2	133.6	113.8	103.7	93.4	85.4	11.1	21.3
				Loss[%]	2.7	3.7	5.5	2.7	3.8	6.1	4.1	6.7	N/A	N/A
				Efficiency[%]	97.3	96.3	94.5	97.3	96.2	93.9	95.9	93.3	N/A	N/A
2042	12.6	7.5	33	Loss[W]	248.9	213.2	181.4	128.2	112.1	103.6	83.2	78.2	10.4	19.5
				Loss[%]	2.7	3.8	5.7	2.7	3.9	6.7	4.6	8.4	N/A	N/A
				Efficiency[%]	97.3	96.2	94.3	97.3	96.1	93.3	95.4	91.6	N/A	N/A
2056	17.9	11	47	Loss[W]	409.9	338.4	285.6	203.7	172.1	154.6	122.9	112.3	10.9	20.2
				Loss[%]	2.9	3.9	5.8	2.8	4.0	6.8	4.8	8.8	N/A	N/A
				Efficiency[%]	97.1	96.1	94.2	97.2	96.0	93.2	95.2	91.2	N/A	N/A
2070	22.9	15	60	Loss[W]	564.0	458.0	393.0	265.0	227.0	200.0	155.0	139.0	13.0	25.0
				Loss[%]	3.5	4.8	7.8	3.5	5.2	9.6	7.6	17.4	N/A	N/A
				Efficiency[%]	96.5	95.2	92.2	96.6	94.8	90.4	92.4	82.6	N/A	N/A
2082	28.6	18.5	75	Loss[W]	766.9	622.7	550.0	377.0	310.0	283.6	232.8	196.3	15.9	31.4
				Loss[%]	3.4	4.5	6.8	3.0	4.1	6.7	4.5	7.0	N/A	N/A
				Efficiency[%]	96.6	95.5	93.2	97.0	95.9	93.3	95.5	93.0	N/A	N/A
2110	33.5	22	88	Loss[W]	790.0	651.0	575.0	415.0	344.0	303.0	248.0	222.0	17.0	38.0
				Loss[%]	3.0	4.0	6.1	2.7	3.8	6.0	4.0	6.4	N/A	N/A
				Efficiency[%]	97.0	96.0	93.9	97.3	96.2	94.0	96.0	93.6	N/A	N/A
2138	43.8	30	115	Loss[W]	1024.0	856.0	746.0	517.0	426.0	382.0	310.0	272.0	21.0	43.0
				Loss[%]	3.0	4.2	6.5	2.9	4.1	7.0	4.9	8.7	N/A	N/A
				Efficiency[%]	97.0	95.8	93.5	97.1	95.9	93.0	95.1	91.3	N/A	N/A
2169	55.3	37	145	Loss[W]	1249.0	1017.0	914.0	639.0	555.0	477.0	384.0	340.0	18.0	42.0
				Loss[%]	2.9	4.0	6.2	2.7	4.0	6.1	4.0	6.6	N/A	N/A
				Efficiency[%]	97.1	96.0	93.8	97.3	96.0	93.9	96.0	93.4	N/A	N/A
2211	68.6	45	180	Loss[W]	1309.0	1113.0	992.0	704.0	581.0	528.0	431.0	387.0	21.0	45.0
				Loss[%]	2.5	3.5	5.6	2.4	3.4	5.7	3.8	6.4	N/A	N/A
				Efficiency[%]	97.5	96.5	94.4	97.6	96.6	94.3	96.2	93.6	N/A	N/A
2257	81.9	55	215	Loss[W]	1653.0	1488.0	1297.0	886.0	786.0	694.0	563.0	511.0	51.0	115.0
				Loss[%]	2.6	4.0	6.1	2.6	3.9	6.2	4.2	7.0	N/A	N/A
				Efficiency[%]	97.4	96.0	93.9	97.5	96.1	93.8	95.8	93.0	N/A	N/A
2313	108	75	283	Loss[W]	2260.0	1857.0	1677.0	1147.0	994.0	881.0	692.0	630.0	50.0	120.0
				Loss[%]	2.7	3.8	6.0	2.5	3.8	6.2	4.0	6.9	N/A	N/A
				Efficiency[%]	97.3	96.2	94.0	97.5	96.2	93.8	96.0	93.1	N/A	N/A
2360	132	90	346	Loss[W]	2543.0	2153.0	1950.0	1304.0	1101.0	1017.0	810.0	732.0	78.0	177.0
				Loss[%]	2.7	3.9	6.2	2.7	3.9	6.6	4.9	8.4	N/A	N/A
				Efficiency[%]	97.3	96.1	93.8	97.3	96.1	93.4	95.1	91.6	N/A	N/A
2415	158	110	415	Loss[W]	3063.0	2567.0	2278.0	1603.0	1387.0	1240.0	1041.0	898.0	88.0	186.0
				Loss[%]	2.6	3.8	6.1	2.6	3.8	6.3	4.6	7.4	N/A	N/A
				Efficiency[%]	97.4	96.2	94.1	97.4	96.2	93.7	95.4	92.6	N/A	N/A

Three-Phase 400V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency%), Torque Producing Current(%)								(0.0)	
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2
4002	1.2	0.4	1.8	Loss[W]	27.8	28.5	27.9	24.8	22.9	23.4	25.1	24.1	10.6	N/A
				Loss[%]	2.9	4.9	8.3	3.8	6.0	10.4	6.9	11.3	N/A	N/A
				Efficiency[%]	97.1	95.1	91.7	96.2	94.0	89.6	93.1	88.7	N/A	N/A
4004	2.2	0.75	3.4	Loss[W]	43.8	36.7	36.8	36.0	35.9	30.5	32.5	30.8	10.4	N/A
				Loss[%]	2.1	2.8	4.7	2.3	3.7	5.7	3.5	6.0	N/A	N/A
				Efficiency[%]	97.9	97.2	95.3	97.7	96.3	94.3	96.5	94.0	N/A	N/A
4005	3.2	1.5	4.8	Loss[W]	53.5	48.1	45.4	39.9	36.2	34.5	30.6	29.2	9.7	N/A
				Loss[%]	1.9	2.8	5.1	2.5	4.0	7.3	5.4	9.9	N/A	N/A
				Efficiency[%]	98.1	97.2	94.9	97.5	96.0	92.7	94.6	90.1	N/A	N/A
4007	3.6	2.2	5.5	Loss[W]	65.6	63.8	56.5	51.0	48.1	45.0	40.1	37.2	10.6	17.5
				Loss[%]	2.1	3.4	5.8	2.8	4.5	8.4	5.9	11.4	N/A	N/A
				Efficiency[%]	97.9	96.6	94.2	97.2	95.5	91.6	94.1	88.6	N/A	N/A
4009	4.7	3	7.2	Loss[W]	82.1	72.5	64.6	58.8	53.0	52.4	42.7	45.1	10.8	18.0
				Loss[%]	2.2	3.6	6.9	3.1	5.1	11.1	8.1	18.8	N/A	N/A
				Efficiency[%]	97.8	96.4	93.1	96.9	94.9	88.9	91.9	81.2	N/A	N/A
4012	6.1	3.7	9.2	Loss[W]	102.9	95.5	81.8	70.0	67.3	65.6	57.9	52.3	11.0	16.9
				Loss[%]	2.0	3.1	5.6	2.2	3.8	7.9	4.8	9.7	N/A	N/A
				Efficiency[%]	98.1	96.9	94.4	97.8	96.2	92.1	95.2	90.3	N/A	N/A
4018	10	5.5	14.8	Loss[W]	191.3	158.4	138.0	130.8	109.7	97.7	92.1	84.5	12.3	23.3
				Loss[%]	2.1	2.9	4.4	2.2	3.1	5.0	3.4	5.7	N/A	N/A
				Efficiency[%]	97.9	97.1	95.6	97.8	96.9	95.0	96.6	94.3	N/A	N/A
4023	12	7.5	18	Loss[W]	228.6	188.6	161.6	121.6	103.7	96.8	75.2	75.4	12.4	22.5
				Loss[%]	2.2	3.1	4.9	2.7	3.9	7.4	8.0	21.0	N/A	N/A
				Efficiency[%]	97.8	96.9	95.1	97.3	96.1	92.6	92.0	79.0	N/A	N/A
4031	16	11	24	Loss[W]	279.6	221.1	201.3	149.1	123.4	114.2	95.0	88.4	14.3	24.4
				Loss[%]	1.9	2.5	4.1	2.0	2.8	5.0	3.6	6.7	N/A	N/A
				Efficiency[%]	98.1	97.5	95.9	98.0	97.2	95.0	96.4	93.3	N/A	N/A
4038	20	15	31	Loss[W]	336.4	287.2	251.9	182.3	154.0	134.7	117.2	108.2	12.9	23.5
				Loss[%]	1.8	2.5	3.7	1.7	2.5	3.9	2.8	4.7	N/A	N/A
				Efficiency[%]	98.2	97.5	96.3	98.3	97.5	96.1	97.2	95.3	N/A	N/A
4044	26	18.5	39	Loss[W]	480.0	415.6	347.4	242.1						

[ECO-Design Efficiency Measurement Result]

Series	Q2A (ND)	Maximum Operating Temperature()	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)
	Q2AxxxxA*	50	50/60	200-240/ 380-480

*1 Cooling Fan Off (Only Loss[W] is listed)
*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Three-Phase 200V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))							(0.0)		
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan Off *1	Fan ON *2
2004	1.3	0.75	3.5	Loss[W]	25.7	24.7	22.7	22.1	20.8	20.0	20.0	19.5	8.9	N/A
				Loss[%]	3.8	6.2	9.9	6.1	9.4	14.7	9.9	15.8	N/A	N/A
				Efficiency[%]	96.2	93.8	90.1	93.9	90.6	85.3	90.1	84.2	N/A	N/A
2006	2.3	1.1	6	Loss[W]	44.8	38.8	34.6	31.7	28.2	25.7	24.3	22.4	8.6	N/A
				Loss[%]	2.5	3.6	5.5	3.1	4.5	7.4	5.9	9.8	N/A	N/A
				Efficiency[%]	97.5	96.5	94.5	96.9	95.5	92.6	94.1	90.2	N/A	N/A
2008	3	1.5	8	Loss[W]	72.0	56.9	47.7	47.0	40.1	35.2	34.0	29.5	9.4	N/A
				Loss[%]	2.8	3.5	4.7	2.9	3.9	5.7	4.5	6.6	N/A	N/A
				Efficiency[%]	97.2	96.5	95.3	97.1	96.1	94.3	95.5	93.4	N/A	N/A
2010	3.7	2.2	9.6	Loss[W]	82.5	62.1	52.2	49.0	41.3	36.4	33.6	31.3	9.5	N/A
				Loss[%]	3.1	3.9	6.0	3.3	4.8	8.1	6.9	12.5	N/A	N/A
				Efficiency[%]	96.9	96.1	94.0	96.7	95.2	91.9	93.1	87.5	N/A	N/A
2012	4.6	3	12.2	Loss[W]	113.2	86.3	68.2	69.2	55.7	46.5	42.7	38.3	9.1	N/A
				Loss[%]	3.1	3.8	5.2	3.1	4.1	6.1	4.5	7.4	N/A	N/A
				Efficiency[%]	96.9	96.2	94.8	96.9	95.9	93.9	95.5	92.6	N/A	N/A
2018	6.7	3.7	17.5	Loss[W]	188.5	138.1	110.3	116.8	88.1	74.8	70.7	60.6	9.2	14.6
				Loss[%]	3.3	3.9	5.1	3.1	3.9	5.6	4.1	6.1	N/A	N/A
				Efficiency[%]	96.7	96.1	94.9	96.9	96.1	94.4	95.9	93.9	N/A	N/A
2021	8	5.5	21	Loss[W]	160.9	133.4	117.2	106.8	90.3	81.5	74.2	66.1	9.7	14.7
				Loss[%]	2.6	3.6	5.5	2.7	3.8	6.2	4.2	6.8	N/A	N/A
				Efficiency[%]	97.4	96.4	94.5	97.3	96.2	93.8	95.8	93.2	N/A	N/A
2030	11.4	7.5	30	Loss[W]	263.7	206.0	186.7	135.6	115.7	105.6	86.3	81.1	10.8	20.6
				Loss[%]	2.9	3.7	5.6	2.7	3.8	6.1	4.1	6.9	N/A	N/A
				Efficiency[%]	97.1	96.3	94.4	97.3	96.2	93.9	95.9	93.1	N/A	N/A
2042	16	11	42	Loss[W]	342.1	289.4	251.5	178.2	146.8	135.4	107.1	98.6	10.7	20.6
				Loss[%]	2.7	3.7	5.5	2.9	4.0	6.6	5.4	9.3	N/A	N/A
				Efficiency[%]	97.3	96.3	94.5	97.1	96.0	93.4	94.6	90.7	N/A	N/A
2056	21.3	15	56	Loss[W]	514.0	409.0	350.0	224.0	208.0	180.0	144.0	137.0	11.0	21.0
				Loss[%]	3.6	4.7	7.4	3.2	5.2	8.8	7.6	16.6	N/A	N/A
				Efficiency[%]	96.4	95.3	92.6	96.8	94.8	91.2	92.4	83.4	N/A	N/A
2070	26.7	18.5	70	Loss[W]	715.0	568.8	495.7	305.7	288.9	251.5	197.3	178.2	13.1	25.8
				Loss[%]	3.4	4.5	6.8	2.7	4.2	6.7	4.3	9.2	N/A	N/A
				Efficiency[%]	96.6	95.5	93.2	97.3	95.8	93.3	95.7	92.8	N/A	N/A
2082	31.2	22	82	Loss[W]	862.0	706.0	618.0	408.0	359.0	313.0	247.0	221.0	15.0	33.0
				Loss[%]	3.5	4.7	7.1	2.9	4.3	6.7	4.3	6.9	N/A	N/A
				Efficiency[%]	96.5	95.3	92.9	97.1	95.7	93.3	95.7	93.1	N/A	N/A
2110	41.9	30	110	Loss[W]	1100.0	862.0	754.0	506.0	447.0	385.0	285.0	265.0	17.0	38.0
				Loss[%]	3.4	4.5	7.0	3.1	4.6	7.5	5.1	9.1	N/A	N/A
				Efficiency[%]	96.6	95.5	93.0	96.9	95.4	92.5	94.9	90.0	N/A	N/A
2138	52.6	37	138	Loss[W]	1349.0	1090.0	947.0	648.0	545.0	478.0	372.0	335.0	19.0	42.0
				Loss[%]	3.3	4.5	6.8	2.9	4.1	6.6	4.2	7.1	N/A	N/A
				Efficiency[%]	96.7	95.5	93.2	97.1	95.9	93.4	95.8	92.9	N/A	N/A
2169	64.4	45	169	Loss[W]	1336.0	1109.0	982.0	664.0	592.0	512.0	412.0	363.0	19.0	43.0
				Loss[%]	2.7	3.8	6.0	2.5	3.8	6.0	4.0	6.6	N/A	N/A
				Efficiency[%]	97.3	96.2	94.0	97.5	96.2	94.0	96.0	93.4	N/A	N/A
2211	80.4	55	211	Loss[W]	1769.0	1417.0	1214.0	857.0	729.0	622.0	495.0	433.0	20.0	45.0
				Loss[%]	2.9	3.9	6.0	2.5	3.7	5.8	3.8	6.2	N/A	N/A
				Efficiency[%]	97.1	96.1	94.0	97.5	96.3	94.2	96.2	93.8	N/A	N/A
2257	97.9	75	257	Loss[W]	2161.0	1822.0	1661.0	974.0	969.0	847.0	620.0	597.0	47.0	115.0
				Loss[%]	2.9	4.1	6.7	2.4	4.1	6.7	4.1	7.5	N/A	N/A
				Efficiency[%]	97.1	95.9	93.3	97.6	95.9	93.3	95.9	92.5	N/A	N/A
2313	119	90	313	Loss[W]	2565.0	2082.0	1872.0	1305.0	1099.0	982.0	793.0	686.0	49.0	117.0
				Loss[%]	2.8	3.8	6.0	2.6	3.7	6.1	4.0	6.4	N/A	N/A
				Efficiency[%]	97.2	96.2	94.0	97.4	96.3	93.9	96.0	93.6	N/A	N/A
2360	137	110	360	Loss[W]	2665.0	2241.0	2018.0	1366.0	1113.0	1031.0	870.0	757.0	78.0	167.0
				Loss[%]	2.7	3.8	6.3	2.7	3.7	6.4	4.9	7.9	N/A	N/A
				Efficiency[%]	97.3	96.2	93.7	97.3	96.3	93.6	95.1	92.1	N/A	N/A

Three-Phase 400V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))							(0.0)		
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan Off *1	Fan ON *2
4002	1.4	0.75	2.1	Loss[W]	31.1	31.2	29.6	30.8	26.5	25.6	24.6	26.2	10.7	N/A
				Loss[%]	2.6	4.1	6.7	3.4	5.0	8.4	4.8	8.9	N/A	N/A
				Efficiency[%]	97.4	95.9	93.3	96.6	95.0	91.6	95.2	91.1	N/A	N/A
4004	2.7	1.5	4.1	Loss[W]	49.9	46.2	41.1	38.2	35.5	32.2	30.4	27.8	10.4	N/A
				Loss[%]	1.9	2.8	4.0	2.2	3.3	5.1	3.9	6.1	N/A	N/A
				Efficiency[%]	98.1	97.2	96.0	97.8	96.7	94.9	96.1	93.9	N/A	N/A
4005	3.6	2.2	5.4	Loss[W]	65.0	55.8	50.2	46.4	39.6	36.8	33.3	31.0	9.9	N/A
				Loss[%]	2.1	3.0	5.2	2.6	3.8	7.0	5.2	9.7	N/A	N/A
				Efficiency[%]	97.9	97.0	94.8	97.4	96.2	93.0	94.8	90.4	N/A	N/A
4007	4.7	3	7.1	Loss[W]	84.3	74.0	69.7	56.4	49.4	45.6	46.4	43.3	11.6	17.4
				Loss[%]	2.3	3.7	7.1	3.0	4.8	10.7	8.8	17.7	N/A	N/A
				Efficiency[%]	97.7	96.3	92.9	97.0	95.2	89.3	91.2	82.3	N/A	N/A
4009	5.9	3.7	8.9	Loss[W]	97.0	89.6	77.9	71.1	59.1	60.4	52.2	50.7	11.1	17.4
				Loss[%]	1.9	3.1	5.4	2.4	3.5	7.5	4.7	9.7	N/A	N/A
				Efficiency[%]	98.1	96.9	94.6	97.6	96.5	92.5	95.3	90.3	N/A	N/A
4012	7.8	5.5	11.9	Loss[W]	128.9	123.2	110.2	93.4	82.3	82.4	70.3	63.4	11.5	18.0
				Loss[%]	1.9	2.9	4.7	2.1	3.1	5.7	3.5	6.1	N/A	N/A
				Efficiency[%]	98.1	97.1	95.3	97.9	96.9	94.3	96.5	93.9	N/A	N/A
4018	12	7.5	17.5	Loss[W]	230.0	188.8	169.2	123.6	106.0	98.9	81.3	77.8	12.3	23.5
				Loss[%]	2.2	2.9	4.4	2.1	3.0	4.9	3.3	5.8	N/A	N/A
				Efficiency[%]	97.8	97.1	95.6	97.9	97.0	95.1	96.7	94.2	N/A	N/A
4023	15	11	23.4	Loss[W]	331.4	267.8	226.9	159.8	140.2	122.7	102.2	93.3	12.1	22.8
				Loss[%]	2.4	3.2	4.6	2.3	3.3	5.2	3.9	6.6	N/A	N/A
				Efficiency[%]	97.6	96.8	95.4	97.7	96.7	94.8	96.1	93.4	N/A	N/A
4031	20	15	31	Loss[W]	413.3	323.5	267.3	181.7	169.8	144.7	127.1	102.0	12.7	23.3
				Loss[%]	2.4	3.2	5.3	2.3	3.8	6.8	6.5	12.4	N/A	N/A
				Efficiency[%]	97.6	96.8	94.7	97.7	96.2	93.2	93.5	87.6	N/A	N/A
4038	25	18.5	38	Loss[W]	434.7	374.2	316.3	213.7	194.8	171.4	143.0	122.4	13.1	23.4
				Loss[%]	1.9	2.8	4.1	1.8	2.8	4.5	3.2	5.2	N/A	N/A
				Efficiency[%]	98.1	97.2	95.9	98.2	97.2	95.5	96.8	94.8	N/A	N/A
4044	29	22	44	Loss[W]	544.9	442.9	399.9	265.2	245.6	205.4	168.1	146.5	14.7	26.7
				Loss[%]	2.1	2.8	4.4	1.8	2.9	4.4	2.9	4.7	N/A	N/A
				Efficiency[%]	97.9	97.2	95.6	98.2	97.1	95.6	97.1	95.3	N/A	N/A
4060	39	30	59.6	Loss[W]	753.0	656.0	569.0	397.0	3					

[ECO-Design Efficiency Measurement Result]

Series	A1000 (HD)	Maximum θ_{c} Operating Temperature()	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)
	CIMR-A \times xxxxxxA*			
	CIMR-A \times xxxxxxF*			
	50		50/60	200-240/ 380-480
	40			

*1 Cooling Fan Off (Only Loss[W] is listed)
*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Three-Phase 200V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									(0.0)	
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan Off *1	Fan ON *2	
2A0004	1.2	0.4	3.2	Loss[W]	27.7	25.2	23.0	23.2	21.6	19.5	20.8	19.8	9.0	N/A	
				Loss[%]	3.4	5.1	7.9	4.0	6.2	9.7	6.3	10.2	N/A	N/A	
				Efficiency[%]	96.6	94.9	92.1	96.0	93.8	90.3	93.7	89.8	N/A	N/A	
2A0006	1.9	0.75	5	Loss[W]	45.8	39.5	34.3	35.9	31.9	30.1	31.5	28.8	9.3	N/A	
				Loss[%]	3.0	4.0	5.7	3.2	4.4	6.9	4.5	6.9	N/A	N/A	
				Efficiency[%]	97.0	96.0	94.3	96.8	95.6	93.1	95.5	93.1	N/A	N/A	
2A0008	2.6	1.1	6.9	Loss[W]	60.0	50.2	43.9	39.4	33.6	31.2	28.6	26.4	9.7	N/A	
				Loss[%]	2.8	3.7	5.4	3.0	4.1	6.8	5.0	8.2	N/A	N/A	
				Efficiency[%]	97.2	96.3	94.6	97.0	95.9	93.2	95.0	91.8	N/A	N/A	
2A0010	3	1.5	8	Loss[W]	64.2	53.5	47.1	40.5	35.0	31.5	28.2	26.7	9.7	N/A	
				Loss[%]	3.0	4.2	6.8	3.7	5.5	9.4	8.7	16.1	N/A	N/A	
				Efficiency[%]	97.0	95.8	93.2	96.3	94.5	90.6	91.3	83.9	N/A	N/A	
2A0012	4.2	2.2	11	Loss[W]	92.3	76.0	65.6	56.7	49.5	45.1	40.4	36.4	9.7	N/A	
				Loss[%]	2.8	3.8	6.0	3.0	4.4	7.6	5.5	9.7	N/A	N/A	
				Efficiency[%]	97.2	96.2	94.0	97.0	95.6	92.4	94.5	90.3	N/A	N/A	
2A0018	5.3	3	14	Loss[W]	106.1	90.6	77.4	68.4	61.0	53.6	49.5	44.6	10.7	14.4	
				Loss[%]	2.9	4.3	7.4	3.4	5.5	10.0	8.0	15.2	N/A	N/A	
				Efficiency[%]	97.1	95.7	92.6	96.6	94.5	90.0	92.0	84.8	N/A	N/A	
2A0021	6.7	3.7	17.5	Loss[W]	139.3	115.2	111.0	91.3	82.0	74.1	78.7	54.8	10.6	14.0	
				Loss[%]	2.8	3.8	6.8	2.9	4.5	8.1	6.3	9.1	N/A	N/A	
				Efficiency[%]	97.2	96.2	93.3	97.1	95.5	91.9	93.7	90.9	N/A	N/A	
2A0030	9.5	5.5	25	Loss[W]	196.6	166.1	139.8	116.8	109.1	97.2	80.8	79.3	11.0	17.6	
				Loss[%]	2.9	4.4	7.7	3.0	5.1	10.1	6.3	14.3	N/A	N/A	
				Efficiency[%]	97.1	95.6	92.3	97.0	94.9	89.9	93.7	85.7	N/A	N/A	
2A0040	12.6	7.5	33	Loss[W]	318.3	214.8	189.7	139.2	142.4	80.8	94.7	77.3	10.3	16.5	
				Loss[%]	3.3	3.8	6.0	2.8	4.9	5.5	5.5	9.1	N/A	N/A	
				Efficiency[%]	96.7	96.2	94.0	97.2	95.1	94.5	94.5	90.9	N/A	N/A	
2A0056	17.9	11	47	Loss[W]	486.5	390.1	338.2	232.4	195.9	174.0	137.2	123.3	11.1	21.2	
				Loss[%]	3.4	4.4	6.8	3.2	4.6	7.5	5.5	9.5	N/A	N/A	
				Efficiency[%]	96.6	95.6	93.2	96.8	95.4	92.5	94.5	90.5	N/A	N/A	
2A0069	23	15	60	Loss[W]	665.0	530.0	459.0	292.0	256.0	222.0	169.0	153.0	12.0	21.0	
				Loss[%]	4.1	5.5	8.9	3.8	5.8	10.2	8.4	18.6	N/A	N/A	
				Efficiency[%]	95.9	94.5	91.1	96.2	94.2	89.8	91.6	81.4	N/A	N/A	
2A0081	29	18.5	75	Loss[W]	804.0	658.0	598.0	392.0	333.0	300.0	240.0	213.0	16.0	25.0	
				Loss[%]	3.5	4.8	7.5	3.1	4.4	7.2	4.7	7.6	N/A	N/A	
				Efficiency[%]	96.5	95.2	92.5	96.9	95.6	92.8	95.3	92.4	N/A	N/A	
2A0110	32	22	85	Loss[W]	846.0	753.0	642.0	460.0	372.0	323.0	262.0	231.0	15.0	21.0	
				Loss[%]	3.3	4.9	7.1	3.2	4.3	6.7	4.4	7.0	N/A	N/A	
				Efficiency[%]	96.7	95.1	92.9	96.8	95.7	93.3	95.6	93.0	N/A	N/A	
2A0138	44	30	115	Loss[W]	1068.0	911.0	809.0	558.0	474.0	419.0	335.0	295.0	16.0	33.0	
				Loss[%]	3.2	4.5	7.0	3.2	4.6	7.5	5.3	9.0	N/A	N/A	
				Efficiency[%]	96.8	95.5	93.0	96.8	95.4	92.5	94.7	91.0	N/A	N/A	
2A0169	55	37	145	Loss[W]	1300.0	1096.0	989.0	691.0	614.0	530.0	438.0	384.0	35.0	55.0	
				Loss[%]	3.0	4.3	6.7	2.9	4.4	6.9	4.6	7.5	N/A	N/A	
				Efficiency[%]	97.0	95.7	93.3	97.1	95.6	93.1	95.4	92.5	N/A	N/A	
2A0211	69	45	180	Loss[W]	1588.0	1347.0	1241.0	846.0	740.0	639.0	528.0	461.0	35.0	54.0	
				Loss[%]	3.0	4.3	6.9	2.9	4.3	6.8	4.6	7.5	N/A	N/A	
				Efficiency[%]	97.0	95.7	93.1	97.1	95.7	93.2	95.4	92.5	N/A	N/A	
2A0250	82	55	215	Loss[W]	1864.0	1637.0	1489.0	972.0	860.0	759.0	591.0	547.0	40.0	87.0	
				Loss[%]	3.0	4.4	7.1	2.8	4.2	6.9	4.4	7.5	N/A	N/A	
				Efficiency[%]	97.0	95.6	92.9	97.2	95.8	93.1	95.6	92.5	N/A	N/A	
2A0312	108	75	283	Loss[W]	2414.0	2090.0	1903.0	1224.0	1117.0	967.0	752.0	689.0	39.0	83.0	
				Loss[%]	2.9	4.2	6.9	2.7	4.2	6.8	4.3	7.4	N/A	N/A	
				Efficiency[%]	97.1	95.8	93.1	97.3	95.8	93.2	95.7	92.6	N/A	N/A	
2A0360	132	90	346	Loss[W]	2835.0	2475.0	2298.0	1479.0	1339.0	1191.0	902.0	849.0	54.0	144.0	
				Loss[%]	3.1	4.5	7.5	3.1	4.8	7.8	5.4	9.4	N/A	N/A	
				Efficiency[%]	96.9	95.5	92.5	96.9	95.2	92.2	94.6	90.6	N/A	N/A	
2A0415	158	110	415	Loss[W]	3343.0	2904.0	2598.0	1721.0	1526.0	1388.0	1059.0	990.0	60.0	142.0	
				Loss[%]	3.0	4.3	6.8	2.8	4.3	7.1	4.7	8.1	N/A	N/A	
				Efficiency[%]	97.0	95.7	93.2	97.2	95.7	92.9	95.3	92.0	N/A	N/A	

Three-Phase 400V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									(0.0)	
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan Off *1	Fan ON *2	
4A0002	1.4	0.4	1.8	Loss[W]	26.0	24.1	22.2	23.4	20.7	22.0	20.5	23.4	10.1	N/A	
				Loss[%]	2.7	4.2	6.6	3.7	5.6	9.7	5.8	10.7	N/A	N/A	
				Efficiency[%]	97.3	95.8	93.4	96.3	94.4	90.3	94.2	89.3	N/A	N/A	
4A0004	2.6	0.75	3.4	Loss[W]	46.8	43.0	41.1	36.8	33.9	34.6	34.8	30.9	10.5	N/A	
				Loss[%]	2.2	3.1	4.6	2.2	3.1	5.1	3.3	4.7	N/A	N/A	
				Efficiency[%]	97.8	96.9	95.4	97.8	96.9	94.9	96.7	95.3	N/A	N/A	
4A0005	3.7	1.5	4.8	Loss[W]	57.0	48.2	46.6	37.8	38.9	35.1	32.0	30.1	10.6	N/A	
				Loss[%]	2.0	2.8	5.1	2.4	3.3	7.2	5.8	10.0	N/A	N/A	
				Efficiency[%]	98.0	97.2	94.9	97.6	95.7	92.8	94.2	90.0	N/A	N/A	
4A0007	4.2	2.2	5.5	Loss[W]	71.8	62.5	58.8	53.7	45.1	44.1	41.3	35.0	11.3	14.7	
				Loss[%]	2.3	3.3	5.6	2.8	4.0	7.5	5.4	9.0	N/A	N/A	
				Efficiency[%]	97.7	96.7	94.4	97.2	96.0	92.5	94.6	91.0	N/A	N/A	
4A0009	5.5	3	7.2	Loss[W]	86.9	75.6	74.2	62.1	54.7	48.5	46.2	46.1	11.8	15.4	
				Loss[%]	1.9	2.7	4.7	2.2	3.2	5.2	3.7	7.0	N/A	N/A	
				Efficiency[%]	98.1	97.3	95.3	97.8	96.8	94.8	96.3	93.0	N/A	N/A	
4A0011	7	3.7	9.2	Loss[W]	109.2	92.7	79.9	74.3	62.4	59.6	50.5	52.6	11.4	14.3	
				Loss[%]	2.1	3.1	5.4	2.3	3.5	7.2	4.4	9.8	N/A	N/A	
				Efficiency[%]	97.9	96.9	94.6	97.7	96.5	92.8	95.6	90.2	N/A	N/A	
4A0018	11.3	5.5	14.8	Loss[W]	190.0	170.8	154.1	110.3	98.7	125.5	70.9	80.3	13.1	18.5	
				Loss[%]	2.3	3.7	7.1	2.2	3.7	10.0	3.9	10.0	N/A	N/A	
				Efficiency[%]	97.7	96.3	92.9	97.8	96.3	90.0	96.1	90.0	N/A	N/A	
4A0023	13.7	7.5	18	Loss[W]	216.8	187.5	159.5	126.5	109.8	96.5	70.2	73.7	12.4	20.7	
				Loss[%]	2.1	3.0	5.4	2.4	3.7	6.9	4.2	9.8	N/A	N/A	
				Efficiency[%]	97.9	97.0	94.9	97.6	96.3	93.2	95.8	90.2	N/A	N/A	
4A0031	18.3	11	24	Loss[W]	310.0	245.1	217.0	158.7	137.4	119.2	101.6	97.5	13.2	20.7	
				Loss[%]	2.2	2.8	4.4	2.2	3.1	5.1	3.7	6.9	N/A	N/A	
				Efficiency[%]	97.8	97.2	95.6	97.8	96.9	94.9	96.3	93.1	N/A	N/A	
4A0038	24	15	31	Loss[W]	400.6	324.3	276.5	209.9	177.2	158.9	121.0	116.5	12.4	23.2	
				Loss[%]	2.1	2.8	4.1	2.0	2.8	4.5	2.8	5.0	N/A	N/A	
				Efficiency[%]	97.9	97.2	95.9	9							

[ECO-Design Efficiency Measurement Result]

Series	A1000 (ND)		Maximum Operating Temperature()	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)
	CIMR-A-xxxxxxA*				
	CIMR-A-xxxxxxF*				
	50	200-240/380-480			
		40			

*1 Cooling Fan Off (Only Loss[W] is listed)
*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Three-Phase 200V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(0.0)									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan Off *1	Fan ON *2
2A0004	1.3	0.75	3.5	Loss[W]	30.3	27.2	24.6	25.2	22.7	20.7	23.1	20.7	9.0	N/A
				Loss[%]	3.4	4.8	7.3	3.8	5.6	8.8	5.9	9.2	N/A	N/A
				Efficiency[%]	96.6	95.2	92.7	96.2	94.4	91.2	94.1	90.8	N/A	N/A
2A0006	2.3	1.1	6	Loss[W]	52.5	45.1	40.7	34.7	31.1	29.2	25.7	23.9	9.0	N/A
				Loss[%]	3.0	4.0	6.2	3.3	4.8	8.0	5.9	9.9	N/A	N/A
				Efficiency[%]	97.0	96.0	93.8	96.7	95.2	92.0	94.1	90.1	N/A	N/A
2A0008	3	1.5	8	Loss[W]	65.8	55.3	48.4	40.9	36.1	33.4	28.5	27.1	9.8	N/A
				Loss[%]	3.1	4.4	7.0	3.7	5.7	10.0	9.0	16.1	N/A	N/A
				Efficiency[%]	96.9	95.6	93.0	96.3	94.3	90.0	91.0	83.9	N/A	N/A
2A0010	3.7	2.2	9.6	Loss[W]	75.3	64.3	56.4	47.3	42.2	37.2	32.0	30.8	9.7	N/A
				Loss[%]	2.9	4.0	6.5	3.2	5.0	8.4	6.8	12.7	N/A	N/A
				Efficiency[%]	97.1	96.0	93.5	96.8	95.0	91.6	93.2	87.3	N/A	N/A
2A0012	4.6	3	12	Loss[W]	103.3	83.8	72.8	64.1	55.2	49.9	44.0	40.9	9.9	N/A
				Loss[%]	2.9	3.8	5.7	2.9	4.2	6.8	4.8	8.2	N/A	N/A
				Efficiency[%]	97.1	96.2	94.3	97.1	95.9	93.2	95.2	91.8	N/A	N/A
2A0018	6.7	3.7	17.5	Loss[W]	143.9	120.7	102.8	91.2	78.9	70.2	64.2	56.0	9.9	13.9
				Loss[%]	2.9	4.0	6.4	3.0	4.4	7.7	5.3	9.3	N/A	N/A
				Efficiency[%]	97.1	96.0	93.6	97.0	95.6	92.3	94.7	90.7	N/A	N/A
2A0021	8	5.5	21	Loss[W]	177.1	149.7	125.1	109.5	93.1	79.6	69.7	67.2	10.3	13.6
				Loss[%]	3.4	4.9	8.3	3.7	5.6	10.5	7.6	17.9	N/A	N/A
				Efficiency[%]	96.6	95.1	91.7	96.3	94.4	89.5	92.4	82.1	N/A	N/A
2A0030	11.4	7.5	30	Loss[W]	252.6	211.4	194.1	121.8	113.9	102.4	79.2	73.7	10.5	17.5
				Loss[%]	3.0	4.2	7.1	3.0	4.9	9.0	7.1	15.7	N/A	N/A
				Efficiency[%]	97.0	95.8	92.9	97.0	95.1	91.0	92.9	84.3	N/A	N/A
2A0040	15.2	11	40	Loss[W]	361.0	293.1	251.6	171.0	151.6	137.9	108.2	98.4	11.3	17.5
				Loss[%]	3.0	4.0	5.9	3.0	4.4	7.2	6.2	11.1	N/A	N/A
				Efficiency[%]	97.0	96.0	94.1	97.0	95.6	92.8	93.8	88.9	N/A	N/A
2A0056	21	15	56	Loss[W]	603.0	487.0	422.0	270.0	230.0	206.0	155.0	141.0	11.0	21.0
				Loss[%]	4.1	5.6	8.8	3.9	5.8	10.2	8.4	18.5	N/A	N/A
				Efficiency[%]	95.9	94.4	91.2	96.1	94.2	89.8	91.6	81.5	N/A	N/A
2A0069	26	18.5	69	Loss[W]	803.0	650.0	563.0	378.0	318.0	273.0	217.0	193.0	11.0	21.0
				Loss[%]	3.8	5.2	7.8	3.3	4.7	7.3	4.8	7.9	N/A	N/A
				Efficiency[%]	96.2	94.8	92.2	96.7	95.3	92.7	95.2	92.1	N/A	N/A
2A0081	31	22	81	Loss[W]	899.0	749.0	665.0	431.0	370.0	330.0	256.0	233.0	14.0	23.0
				Loss[%]	3.7	5.1	7.8	3.1	4.5	7.2	4.5	7.5	N/A	N/A
				Efficiency[%]	96.3	94.9	92.2	96.9	95.5	92.8	95.5	92.6	N/A	N/A
2A0110	42	30	110	Loss[W]	1200.0	1011.0	897.0	590.0	498.0	422.0	329.0	296.0	15.0	21.0
				Loss[%]	3.8	5.3	8.3	3.6	5.2	8.2	5.9	10.4	N/A	N/A
				Efficiency[%]	96.2	94.7	91.7	96.4	94.8	91.8	94.1	89.6	N/A	N/A
2A0138	53	37	138	Loss[W]	1394.0	1165.0	1061.0	703.0	606.0	516.0	413.0	362.0	15.0	30.0
				Loss[%]	3.5	4.8	7.7	3.2	4.6	7.1	4.7	7.7	N/A	N/A
				Efficiency[%]	96.5	95.2	92.3	96.8	95.4	92.9	95.3	92.3	N/A	N/A
2A0169	64	45	169	Loss[W]	1620.0	1357.0	1204.0	824.0	716.0	617.0	500.0	444.0	34.0	53.0
				Loss[%]	3.3	4.6	7.2	3.0	4.5	7.1	4.8	8.0	N/A	N/A
				Efficiency[%]	96.7	95.4	92.8	97.0	95.5	92.9	95.2	92.0	N/A	N/A
2A0211	80	55	211	Loss[W]	1953.0	1674.0	1473.0	946.0	849.0	751.0	595.0	516.0	33.0	53.0
				Loss[%]	3.1	4.5	7.0	2.8	4.2	6.8	4.5	7.2	N/A	N/A
				Efficiency[%]	96.9	95.5	93.0	97.2	95.8	93.2	95.5	92.8	N/A	N/A
2A0250	95	75	250	Loss[W]	2349.0	2009.0	1812.0	1164.0	1022.0	919.0	698.0	631.0	38.0	87.0
				Loss[%]	3.2	4.7	7.6	3.0	4.5	7.5	4.8	8.2	N/A	N/A
				Efficiency[%]	96.8	95.3	92.4	97.0	95.5	92.5	95.2	91.8	N/A	N/A
2A0312	119	90	312	Loss[W]	2886.0	2432.0	2177.0	1419.0	1223.0	1079.0	856.0	756.0	37.0	89.0
				Loss[%]	3.1	4.4	7.0	2.8	4.1	6.6	4.3	7.0	N/A	N/A
				Efficiency[%]	96.9	95.6	93.0	97.2	95.9	93.4	95.7	93.0	N/A	N/A
2A0360	137	110	360	Loss[W]	2954.0	2653.0	2392.0	1559.0	1344.0	1232.0	957.0	873.0	51.0	138.0
				Loss[%]	3.1	4.6	7.5	3.1	4.6	7.7	5.3	9.0	N/A	N/A
				Efficiency[%]	96.9	95.4	92.5	96.9	95.4	92.3	94.7	91.0	N/A	N/A
2A0415	158	110	415	Loss[W]	3357.0	2898.0	2644.0	1715.0	1513.0	1375.0	1108.0	998.0	48.0	145.0
				Loss[%]	2.9	4.2	6.8	2.8	4.2	6.9	4.9	8.1	N/A	N/A
				Efficiency[%]	97.1	95.8	93.2	97.2	95.8	93.1	95.1	91.9	N/A	N/A

Three-Phase 400V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(0.0)									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan Off *1	Fan ON *2
4A0002	1.6	0.75	2.1	Loss[W]	31.1	29.1	28.8	25.9	25.9	24.9	24.1	25.4	10.7	N/A
				Loss[%]	2.6	4.0	6.8	3.1	5.1	8.7	5.0	9.3	N/A	N/A
				Efficiency[%]	97.4	96.0	93.2	96.9	94.9	91.3	95.0	90.7	N/A	N/A
4A0004	3.1	1.5	4.1	Loss[W]	52.7	48.6	46.8	37.4	36.3	34.7	28.1	30.6	10.5	N/A
				Loss[%]	2.4	3.8	6.8	3.5	5.9	10.3	9.8	17.7	N/A	N/A
				Efficiency[%]	97.6	96.2	93.2	96.5	94.1	89.7	90.2	82.3	N/A	N/A
4A0005	4.1	2.2	5.4	Loss[W]	64.4	56.8	53.4	43.6	40.2	39.2	33.9	33.0	11.0	N/A
				Loss[%]	2.1	3.0	5.3	2.4	3.7	6.9	4.6	8.8	N/A	N/A
				Efficiency[%]	97.9	97.0	94.7	97.6	96.3	93.1	95.4	91.2	N/A	N/A
4A0007	5.3	3	6.9	Loss[W]	89.9	78.0	69.4	64.5	54.3	55.2	48.3	45.6	11.4	14.2
				Loss[%]	2.2	3.1	4.6	2.5	3.4	6.1	4.1	7.0	N/A	N/A
				Efficiency[%]	97.8	96.9	95.4	97.5	96.6	93.9	95.9	93.0	N/A	N/A
4A0009	6.7	3.7	8.8	Loss[W]	96.6	86.9	84.3	63.0	69.6	50.1	50.3	52.4	12.3	15.7
				Loss[%]	1.9	3.1	6.0	2.1	4.2	6.6	4.7	10.7	N/A	N/A
				Efficiency[%]	98.1	96.9	94.0	97.9	95.8	93.4	95.3	89.3	N/A	N/A
4A0011	8.5	5.5	11.1	Loss[W]	137.2	112.6	106.5	93.2	77.9	76.7	63.3	63.5	11.6	14.0
				Loss[%]	2.1	2.9	5.0	2.3	3.2	6.0	3.6	7.0	N/A	N/A
				Efficiency[%]	97.9	97.1	95.0	97.7	96.8	94.0	96.4	93.0	N/A	N/A
4A0018	13.3	7.5	17.5	Loss[W]	241.9	197.6	103.3	136.1	107.6	92.2	81.8	59.1	12.8	21.1
				Loss[%]	2.4	3.3	3.5	2.7	3.8	6.8	5.3	8.7	N/A	N/A
				Efficiency[%]	97.6	96.7	96.5	97.3	96.2	93.2	94.7	91.3	N/A	N/A
4A0023	17.5	11	23	Loss[W]	322.5	260.4	225.1	160.2	134.1	117.7	92.4	86.4	13.6	19.3
				Loss[%]	2.3	3.1	4.7	2.3	3.2	5.3	3.9	7.1	N/A	N/A
				Efficiency[%]	97.7	96.9	95.3	97.7	96.8	94.7	96.1	92.9	N/A	N/A
4A0031	24	15	31	Loss[W]	434.3	348.7	300.3	222.9	184.4	161.1	131.8	116.8	13.3	19.8
				Loss[%]	2.4	3.1	4.5	2.2	3.0	4.7	3.1	5.0	N/A	N/A
				Efficiency[%]	97.6	96.9	95.5	97.8	97.0	95.3	96.9	95.0	N/A	N/A
4A0038	29	18.5	38	Loss[W]	525.0	421.7	370.0	260.5	220.5	197.7	157.9	138.5	13.6	23.3
				Loss[%]	2.3	3.1	4.7	2.2	3.1	5.1	3.5	5.8	N/A	N/A
				Efficiency[%]	97.7									

【ECO-Design Efficiency Measurement Result】

Series	V1000 (HD)	Maximum °C Operating Temperature()	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)	
	VZA□□□□□□□B*				50
	VZA□□□□□□□F*				40

*1 Cooling Fan OFF (Only Loss[W] is listed)

*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Single-Phase 200V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))											
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)			
															Fan OFF *1	Fan ON *2
BA0001	0.3	0.1	0.8	Loss[W]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Loss[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Efficiency[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BA0002	0.6	0.2	1.6	Loss[W]	16.5	14.8	14.3	12.8	12.5	11.9	11.9	11.4	4.1	N/A		
				Loss[%]	5.4	7.9	11.5	8.0	11.9	16.0	12.1	16.7	N/A	N/A		
				Efficiency[%]	94.6	92.1	88.5	92.0	88.1	84.0	87.9	83.3	N/A	N/A		
BA0003	1.1	0.4	3	Loss[W]	28.6	22.6	20.5	20.7	17.2	16.6	17.9	16.3	3.9	N/A		
				Loss[%]	4.0	5.4	8.3	4.4	6.4	10.3	7.1	10.8	N/A	N/A		
				Efficiency[%]	96.0	94.6	91.7	95.6	93.6	89.7	92.9	89.2	N/A	N/A		
BA0006	1.9	0.75	5	Loss[W]	48.2	39.7	33.8	35.4	30.7	29.2	29.5	26.8	4.7	N/A		
				Loss[%]	3.2	4.0	5.7	3.1	4.2	6.8	4.2	6.5	N/A	N/A		
				Efficiency[%]	96.8	96.0	94.3	96.9	95.8	93.2	95.8	93.5	N/A	N/A		
BA0010	3	1.5	8	Loss[W]	77.3	61.3	53.4	45.8	39.1	35.3	31.0	28.2	4.7	6.9		
				Loss[%]	3.7	4.8	7.4	3.9	5.7	10.0	7.7	15.2	N/A	N/A		
				Efficiency[%]	96.3	95.2	92.6	96.1	94.3	90.0	92.3	84.8	N/A	N/A		
BA0012	4.2	2.2	11	Loss[W]	106.7	85.8	70.0	65.7	49.2	46.9	41.3	37.0	5.6	8.2		
				Loss[%]	3.3	4.3	6.5	3.4	4.4	8.0	5.7	10.3	N/A	N/A		
				Efficiency[%]	96.7	95.7	93.5	96.6	95.6	92.0	94.3	89.7	N/A	N/A		
BA0018	5.3	3.7	17.5	Loss[W]	267.2	172.7	124.4	141.7	99.1	77.8	71.0	60.4	6.1	9.0		
				Loss[%]	5.2	5.7	8.0	4.7	5.7	9.1	6.3	11.6	N/A	N/A		
				Efficiency[%]	94.8	94.3	92.0	95.3	94.3	90.9	93.7	88.4	N/A	N/A		

Three-Phase 200V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))										
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)		
															Fan OFF *1
2A0001	0.3	0.1	0.8	Loss[W]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Loss[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Efficiency[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2A0002	0.6	0.2	1.6	Loss[W]	14.5	13.2	13.1	12.0	11.8	11.2	11.6	11.0	4.2	N/A	
				Loss[%]	4.7	7.0	10.4	7.5	11.2	14.7	12.1	16.0	N/A	N/A	
				Efficiency[%]	95.3	93.0	89.6	92.5	88.8	85.3	87.9	84.0	N/A	N/A	
2A0004	1.1	0.4	3	Loss[W]	24.8	22.3	20.4	19.4	16.8	16.4	17.6	16.6	3.8	N/A	
				Loss[%]	3.4	5.4	8.4	4.4	6.6	10.6	7.7	11.4	N/A	N/A	
				Efficiency[%]	96.6	94.6	91.6	95.6	93.4	89.4	92.3	88.6	N/A	N/A	
2A0006	1.9	0.75	5	Loss[W]	47.0	41.6	35.8	37.2	33.2	27.8	32.5	27.6	3.9	5.6	
				Loss[%]	3.1	4.2	6.1	3.2	4.6	6.7	4.6	6.9	N/A	N/A	
				Efficiency[%]	96.9	95.8	93.9	96.8	95.4	93.3	95.4	93.1	N/A	N/A	
2A0008	2.6	1.1	6.9	Loss[W]	64.9	54.5	48.7	43.5	37.3	33.4	28.8	27.8	4.5	6.5	
				Loss[%]	3.0	4.0	6.1	3.3	4.6	7.4	5.2	9.1	N/A	N/A	
				Efficiency[%]	97.0	96.0	93.9	96.7	95.4	92.6	94.8	90.9	N/A	N/A	
2A0010	3	1.5	8	Loss[W]	71.9	60.9	53.5	44.5	39.0	36.6	31.1	29.1	4.5	6.7	
				Loss[%]	3.4	4.8	7.7	4.0	6.1	11.1	9.4	19.1	N/A	N/A	
				Efficiency[%]	96.6	95.2	92.3	96.0	93.9	88.9	90.6	80.9	N/A	N/A	
2A0012	4.2	2.2	11	Loss[W]	97.2	81.9	73.3	62.0	53.4	49.1	42.3	39.3	4.6	7.6	
				Loss[%]	3.0	4.1	6.8	3.2	4.8	8.5	6.0	10.8	N/A	N/A	
				Efficiency[%]	97.0	95.9	93.2	96.8	95.2	91.5	94.0	89.2	N/A	N/A	
2A0018	5.3	3	14	Loss[W]	113.8	94.9	82.7	72.4	62.8	55.6	47.8	44.6	5.1	8.3	
				Loss[%]	3.1	4.5	8.1	3.6	5.7	11.0	7.9	17.6	N/A	N/A	
				Efficiency[%]	96.9	95.5	91.9	96.4	94.3	89.0	92.1	82.4	N/A	N/A	
2A0020	6.7	3.7	17.5	Loss[W]	158.6	124.6	116.0	91.4	84.8	77.1	58.1	57.1	5.1	8.2	
				Loss[%]	3.2	4.2	6.9	3.0	4.7	7.8	4.6	8.6	N/A	N/A	
				Efficiency[%]	96.8	95.8	93.1	97.0	95.3	92.2	95.4	91.4	N/A	N/A	
2A0030	9.5	5.5	25	Loss[W]	214.4	181.2	165.9	125.8	120.6	103.5	90.9	83.3	8.7	12.9	
				Loss[%]	3.2	4.8	9.1	3.2	5.7	11.0	7.3	15.2	N/A	N/A	
				Efficiency[%]	96.8	95.2	90.9	96.8	94.3	89.0	92.7	84.8	N/A	N/A	
2A0040	12.6	7.5	33	Loss[W]	297.6	248.4	227.4	157.8	134.2	124.8	100.4	91.4	7.9	13.4	
				Loss[%]	2.9	4.0	6.0	2.8	3.9	6.3	4.2	6.9	N/A	N/A	
				Efficiency[%]	97.1	96.0	94.0	97.2	96.1	93.7	95.8	93.1	N/A	N/A	
2A0056	17.9	11	47	Loss[W]	507.2	403.6	369.7	247.3	214.0	196.4	155.1	136.9	8.2	17.2	
				Loss[%]	3.5	4.6	7.4	3.3	4.9	8.4	6.1	10.2	N/A	N/A	
				Efficiency[%]	96.5	95.4	92.6	96.7	95.1	91.6	93.9	89.8	N/A	N/A	
2A0069	22.9	15	60	Loss[W]	658.9	534.9	488.4	331.3	271.7	253.8	199.6	174.9	9.8	19.4	
				Loss[%]	3.6	4.9	7.9	3.5	4.8	8.3	5.6	9.2	N/A	N/A	
				Efficiency[%]	96.4	95.1	92.1	96.6	95.2	91.7	94.4	90.8	N/A	N/A	

Three-Phase 400V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
4A0001	0.9	0.2	1.2	Loss[W]	24.1	22.4	21.2	21.4	20.7	20.5	19.3	19.6	6.0	N/A
				Loss[%]	3.9	5.9	9.3	5.7	8.7	12.4	8.6	12.5	N/A	N/A
				Efficiency[%]	96.1	94.1	90.7	94.3	91.3	87.6	91.4	87.5	N/A	N/A
4A0002	1.4	0.4	1.8	Loss[W]	31.5	29.6	28.7	27.6	26.4	26.0	25.7	25.6	6.5	N/A
				Loss[%]	3.3	5.3	8.6	4.5	7.5	12.0	7.7	12.4	N/A	N/A
				Efficiency[%]	96.7	94.7	91.4	95.5	92.5	88.1	92.3	87.6	N/A	N/A
4A0004	2.6	0.75	3.4	Loss[W]	50.5	47.2	48.0	43.5	41.8	39.4	41.3	39.0	6.0	N/A
				Loss[%]	2.3	3.4	5.4	2.6	3.9	5.8	3.9	5.9	N/A	N/A
				Efficiency[%]	97.7	96.6	94.6	97.4	96.1	94.2	96.1	94.1	N/A	N/A
4A0005	3.7	1.5	4.8	Loss[W]	67.6	57.7	53.8	51.0	47.5	46.1	34.3	38.4	5.8	8.0
				Loss[%]	2.4	3.4	5.9	3.2	5.3	9.3	6.3	12.7	N/A	N/A
				Efficiency[%]	97.6	96.6	94.1	96.8	94.7	90.7	93.7	87.3	N/A	N/A
4A0007	4.2	2.2	5.5	Loss[W]	75.8	64.5	61.8	53.1	45.3	45.8	40.2	38.1	6.4	7.7
				Loss[%]	2.4	3.4	6.3	2.9	4.3	8.8	6.3	12.1	N/A	N/A
				Efficiency[%]	97.6	96.6	93.7	97.1	95.7	91.2	93.7	87.9	N/A	N/A
4A0009	5.5	3	7.2	Loss[W]	109.9	100.4	95.5	79.5	71.6	69.0	61.9	58.4	6.1	10.1
				Loss[%]	2.4	3.6	5.9	2.7	4.1	7.2	4.9	8.7	N/A	N/A
				Efficiency[%]	97.6	96.4	94.1	97.3	95.9	92.8	95.1	91.3	N/A	N/A
4A0011	7	3.7	9.2	Loss[W]	135.1	112.9	118.3	77.6	91.6	87.3	83.1	73.0	7.0	9.8
				Loss[%]	2.5	3.7	7.8	2.4	5.1	10.3	6.8	13.6	N/A	N/A
				Efficiency[%]	97.5	96.3	92.2	97.6	94.9	89.7	93.2	86.4	N/A	N/A
4A0018	11.3	5.5	14.8	Loss[W]	215.3	182.9	165.6	140.2	118.0	112.1	106.9	101.6	11.0	15.8
				Loss[%]	2.6	3.9	7.3	2.8	4.3	8.7	5.7	11.7	N/A	N/A
				Efficiency[%]	97.4	96.1	92.7	97.2	95.7	91.3	94.3	88.3	N/A	N/A
4A0023	13.7	7.5	18	Loss[W]	305.5	251.5	227.2	174.0	139.5	138.9	116.4	103.8	10.5	15.9
				Loss[%]	2.9	4.0	7.0	3.2	4.6	9.3	6.7	12.8	N/A	N/A
				Efficiency[%]	97.1	96.0	93.0	96.8	95.4	90.7	93.3	87.2	N/A	N/A
4A0031	18.3	11	24	Loss[W]	380.0	308.3	300.6	196.6	173.2	166.9	126.9	120.8	9.6	16.3
				Loss[%]	2.6	3.5	6.0	2.6	3.9	7.1	4.8	9.1	N/A	N/A
				Efficiency[%]	97.4	96.5	94.0	97.4	96.1	92.9	95.2	90.9	N/A	N/A
4A0038	23.6	15	31	Loss[W]	491.6	397.8	380.7	260.0	220.8	212.3	161.8	154.5	11.3	19.8
				Loss[%]	2.6	3.4	5.6	2.5	3.5	6.1	3.8	6.8	N/A	N/A
				Efficiency[%]	97.4	96.6	94.4	97.5	96.5	93.9	96.2	93.2	N/A	N/A

【ECO-Design Efficiency Measurement Result】

Series	V1000 (ND)	Maximum °C Operating Temperature()	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)	
	VZA□□□□□□□B*				50
	VZA□□□□□□□F*				40

*1 Cooling Fan OFF (Only Loss[W] is listed)

*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Single-Phase 200V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
BA0001	0.5	0.2	1.2	Loss[W]	12.8	11.1	9.9	9.8	8.9	8.4	8.7	8.3	4.1	N/A
				Loss[%]	4.5	6.1	8.7	5.5	8.0	12.3	8.5	12.8	N/A	N/A
				Efficiency[%]	95.5	93.9	91.3	94.5	92.0	87.7	91.5	87.2	N/A	N/A
BA0002	0.7	0.4	1.9	Loss[W]	17.1	14.4	12.9	13.5	11.5	10.7	11.4	10.4	4.2	N/A
				Loss[%]	3.8	5.2	8.2	4.6	6.6	10.8	7.0	11.2	N/A	N/A
				Efficiency[%]	96.2	94.8	91.8	95.4	93.4	89.2	93.0	88.8	N/A	N/A
BA0003	1.3	0.75	3.3	Loss[W]	27.3	22.4	19.5	20.8	17.2	15.7	16.8	15.2	3.7	N/A
				Loss[%]	3.2	4.3	6.7	3.5	4.9	8.1	5.0	8.2	N/A	N/A
				Efficiency[%]	96.8	95.7	93.3	96.5	95.1	91.9	95.0	91.8	N/A	N/A
BA0006	2.3	1.1	6	Loss[W]	70.7	48.4	38.4	38.6	30.9	24.5	22.7	19.7	4.8	N/A
				Loss[%]	4.0	4.4	5.9	3.7	4.8	6.7	5.3	8.4	N/A	N/A
				Efficiency[%]	96.0	95.6	94.1	96.3	95.2	93.3	94.7	91.6	N/A	N/A
BA0010	3.7	2.2	9.6	Loss[W]	118.6	80.3	62.2	60.3	47.3	39.0	33.9	30.7	5.1	6.9
				Loss[%]	4.5	5.0	7.1	4.1	5.5	8.8	7.0	13.1	N/A	N/A
				Efficiency[%]	95.5	95.0	92.9	95.9	94.5	91.2	93.0	86.9	N/A	N/A
BA0012	4.6	3	12	Loss[W]	110.4	86.4	74.9	68.0	56.4	47.4	43.9	38.3	5.0	8.4
				Loss[%]	3.1	3.9	5.9	3.1	4.3	6.5	4.8	8.0	N/A	N/A
				Efficiency[%]	96.9	96.1	94.1	96.9	95.7	93.5	95.2	92.0	N/A	N/A

Three-Phase 200V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
2A0001	0.5	0.2	1.2	Loss[W]	11.7	10.4	9.8	9.4	8.6	8.2	8.7	8.0	4.1	N/A
				Loss[%]	4.0	5.6	8.4	4.9	7.3	11.2	7.8	11.6	N/A	N/A
				Efficiency[%]	96.0	94.4	91.6	95.1	92.7	88.8	92.2	88.4	N/A	N/A
2A0002	0.7	0.4	1.9	Loss[W]	15.0	13.5	12.7	12.3	11.1	10.5	11.1	10.1	4.0	N/A
				Loss[%]	3.2	4.7	7.7	3.9	5.9	10.0	6.3	10.4	N/A	N/A
				Efficiency[%]	96.8	95.3	92.3	96.1	94.1	90.0	93.7	89.6	N/A	N/A
2A0004	1.3	0.75	3.5	Loss[W]	27.4	24.0	21.0	21.0	18.6	16.3	17.4	15.8	4.0	N/A
				Loss[%]	2.9	4.2	6.6	3.2	4.8	7.8	4.7	7.9	N/A	N/A
				Efficiency[%]	97.1	95.8	93.4	96.8	95.2	92.2	95.3	92.1	N/A	N/A
2A0006	2.3	1.1	6	Loss[W]	49.9	42.2	37.0	32.7	28.2	25.2	22.6	20.4	4.0	5.6
				Loss[%]	2.8	3.8	5.7	3.1	4.4	7.0	5.2	8.7	N/A	N/A
				Efficiency[%]	97.2	96.2	94.3	96.9	95.6	93.0	94.8	91.3	N/A	N/A
2A0008	3	1.5	8	Loss[W]	65.4	55.5	48.1	40.8	36.1	32.0	27.9	26.0	4.8	6.6
				Loss[%]	3.1	4.4	6.9	3.7	5.6	9.7	8.6	16.7	N/A	N/A
				Efficiency[%]	96.9	95.6	93.1	96.3	94.4	90.3	91.4	83.3	N/A	N/A
2A0010	3.7	2.2	9.6	Loss[W]	81.1	65.8	57.1	47.5	42.2	38.2	32.9	30.7	4.7	6.7
				Loss[%]	3.0	4.1	6.6	3.2	5.0	8.8	6.9	13.1	N/A	N/A
				Efficiency[%]	97.0	95.9	93.4	96.8	95.0	91.2	93.1	86.9	N/A	N/A
2A0012	4.6	3	12	Loss[W]	98.4	80.6	72.3	62.0	54.1	48.0	42.6	38.2	4.4	7.8
				Loss[%]	2.8	3.7	5.7	2.9	4.1	6.5	4.6	7.6	N/A	N/A
				Efficiency[%]	97.2	96.3	94.3	97.1	95.9	93.5	95.4	92.4	N/A	N/A
2A0018	6.7	3.7	17.5	Loss[W]	139.7	114.5	98.0	85.9	75.4	63.5	56.9	49.9	5.0	8.6
				Loss[%]	2.8	3.8	6.2	2.8	4.2	7.1	4.7	8.6	N/A	N/A
				Efficiency[%]	97.2	96.2	93.8	97.2	95.8	92.9	95.3	91.4	N/A	N/A
2A0020	7.5	5.5	19.6	Loss[W]	151.4	128.2	106.3	97.3	90.0	72.0	58.0	55.3	4.8	8.2
				Loss[%]	3.2	4.6	7.3	3.6	5.8	9.5	6.4	13.9	N/A	N/A
				Efficiency[%]	96.8	95.4	92.7	96.4	94.2	90.5	93.6	86.1	N/A	N/A
2A0030	11.4	7.5	30	Loss[W]	221.9	207.6	176.0	119.3	101.8	99.5	75.1	67.8	8.3	13.5
				Loss[%]	2.6	4.1	6.6	3.0	4.5	8.8	6.9	15.1	N/A	N/A
				Efficiency[%]	97.4	95.9	93.4	97.0	95.5	91.2	93.1	84.9	N/A	N/A
2A0040	15.2	11	40	Loss[W]	350.4	290.4	249.2	170.0	148.5	129.5	103.3	91.2	7.7	12.7
				Loss[%]	2.9	4.0	5.8	3.0	4.3	6.8	6.0	10.3	N/A	N/A
				Efficiency[%]	97.1	96.0	94.2	97.0	95.7	93.2	94.0	89.7	N/A	N/A
2A0056	21.3	15	56	Loss[W]	578.7	452.4	384.3	278.8	226.6	199.1	156.4	141.0	8.1	17.0
				Loss[%]	3.4	4.3	6.4	3.0	4.1	6.5	4.3	7.2	N/A	N/A
				Efficiency[%]	96.6	95.7	93.6	97.0	95.9	93.5	95.7	92.8	N/A	N/A
2A0069	26.3	18.5	69	Loss[W]	735.0	574.5	501.2	349.5	291.7	251.0	199.2	176.4	10.1	18.3
				Loss[%]	3.5	4.6	7.0	3.1	4.4	6.8	4.5	7.3	N/A	N/A
				Efficiency[%]	96.5	95.4	93.0	96.9	95.6	93.2	95.5	92.7	N/A	N/A

Three-Phase 400V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
4A0001	0.9	0.4	1.2	Loss[W]	17.0	15.1	15.1	14.2	13.7	13.9	13.4	13.0	5.9	N/A
				Loss[%]	2.6	3.8	6.3	3.3	5.2	9.0	5.4	8.9	N/A	N/A
				Efficiency[%]	97.4	96.2	93.7	96.7	94.8	91.0	94.6	91.1	N/A	N/A
4A0002	1.6	0.75	2.1	Loss[W]	24.3	22.9	20.9	21.1	18.7	17.9	18.9	17.6	6.5	N/A
				Loss[%]	2.0	3.1	4.9	2.4	3.6	6.2	3.8	6.4	N/A	N/A
				Efficiency[%]	98.0	96.9	95.1	97.6	96.4	93.8	96.2	93.6	N/A	N/A
4A0004	3.1	1.5	4.1	Loss[W]	40.8	37.2	34.6	29.7	26.4	25.1	22.1	20.9	6.0	N/A
				Loss[%]	1.9	2.9	5.1	2.7	4.2	7.5	7.2	12.6	N/A	N/A
				Efficiency[%]	98.1	97.1	94.9	97.3	95.8	92.5	92.8	87.4	N/A	N/A
4A0005	4.1	2.2	5.4	Loss[W]	58.3	48.4	46.8	38.1	34.3	33.4	26.8	27.7	6.6	7.5
				Loss[%]	1.9	2.6	4.9	2.1	3.3	6.5	4.2	9.0	N/A	N/A
				Efficiency[%]	98.1	97.4	95.1	97.9	96.7	93.5	95.8	91.0	N/A	N/A
4A0007	5.3	3	6.9	Loss[W]	74.0	62.0	58.9	47.2	43.8	36.7	32.6	32.5	6.2	7.5
				Loss[%]	1.8	2.4	4.0	1.8	2.7	4.2	2.8	5.2	N/A	N/A
				Efficiency[%]	98.2	97.6	96.0	98.2	97.3	95.8	97.2	94.8	N/A	N/A
4A0009	6.7	3.7	8.8	Loss[W]	125.5	94.4	63.0	52.7	63.9	49.8	62.5	41.0	6.0	9.7
				Loss[%]	2.5	3.3	4.6	1.8	3.8	6.6	5.7	8.6	N/A	N/A
				Efficiency[%]	97.5	96.7	95.4	98.2	96.2	93.4	94.3	91.4	N/A	N/A
4A0011	8.5	5.5	11.1	Loss[W]	126.9	109.2	101.4	88.5	74.5	72.0	61.7	59.3	6.1	9.3
				Loss[%]	2.0	2.9	4.8	2.2	3.1	5.5	3.5	6.4	N/A	N/A
				Efficiency[%]	98.0	97.1	95.2	97.8	96.9	94.5	96.5	93.6	N/A	N/A
4A0018	13.3	7.5	17.5	Loss[W]	235.8	194.4	166.8	119.8	107.9	94.5	72.1	68.3	9.9	15.6
				Loss[%]	2.2	3.0	4.4	2.0	3.1	4.8	3.0	5.2	N/A	N/A
				Efficiency[%]	97.8	97.0	95.6	98.0	96.9	95.2	97.0	94.8	N/A	N/A
4A0023	17.5	11	23	Loss[W]	319.2	245.6	221.4	151.9	128.0	120.0	94.0	85.3	11.2	16.4
				Loss[%]	2.3	2.9	4.6	2.2	3.1	5.4	3.9	6.8	N/A	N/A
				Efficiency[%]	97.7	97.1	95.4	97.8	96.9	94.6	96.1	93.2	N/A	N/A
4A0031	23.6	15	31	Loss[W]	437.5	345.7	295.3	222.0	173.7	156.8	124.6	114.5	10.5	15.7
				Loss[%]	2.3	3.0	4.4	2.1	2.8	4.5	3.0	5.0	N/A	N/A
				Efficiency[%]	97.7	97.0	95.6	97.9	97.2	95.5	97.0	95.0	N/A	N/A
4A0038	29	18.5	38	Loss[W]	471.8	398.2								

【ECO-Design Efficiency Measurement Result】

Series	V1000 Finless (HD)	Maximum °C Operating Temperature()	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)
	CIMR-V:xxxxxxd* CIMR-V:xxxxxxL*			

*1 Cooling Fan OFF (Only Loss[W] is listed)

*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Single-Phase 200V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))							(0,0)				
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2		
BA0001	0.3	0.1	0.8	Loss[W]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
				Loss[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Efficiency[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BA0002	0.6	0.2	1.6	Loss[W]	16.5	14.8	14.3	12.8	12.5	11.9	11.9	11.4	4.1	N/A		
				Loss[%]	5.4	7.9	11.5	8.0	11.9	16.0	12.1	16.7	N/A	N/A		
				Efficiency[%]	94.6	92.1	88.5	92.0	88.1	84.0	87.9	83.3	N/A	N/A		
BA0003	1.1	0.4	3	Loss[W]	28.6	22.6	20.5	20.7	17.2	16.6	17.9	16.3	3.9	N/A		
				Loss[%]	4.0	5.4	8.3	4.4	6.4	10.3	7.1	10.8	N/A	N/A		
				Efficiency[%]	96.0	94.6	91.7	95.6	93.6	89.7	92.9	89.2	N/A	N/A		
BA0006	1.9	0.75	5	Loss[W]	48.2	39.7	33.8	35.4	30.7	29.2	29.5	26.8	4.7	N/A		
				Loss[%]	3.2	4.0	5.7	3.1	4.2	6.8	4.2	6.5	N/A	N/A		
				Efficiency[%]	96.8	96.0	94.3	96.9	95.8	93.2	95.8	93.5	N/A	N/A		
BA0010	3	1.5	8	Loss[W]	77.3	61.3	53.4	45.8	39.1	35.3	31.0	28.2	4.7	N/A		
				Loss[%]	3.7	4.8	7.4	3.9	5.7	10.0	7.7	15.2	N/A	N/A		
				Efficiency[%]	96.3	95.2	92.6	96.1	94.3	90.0	92.3	84.8	N/A	N/A		
BA0012	4.2	2.2	11	Loss[W]	106.7	85.8	70.0	65.7	49.2	46.9	41.3	37.0	5.6	N/A		
				Loss[%]	3.3	4.3	6.5	3.4	4.4	8.0	5.7	10.3	N/A	N/A		
				Efficiency[%]	96.7	95.7	93.5	96.6	95.6	92.0	94.3	89.7	N/A	N/A		

Three-Phase 200V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))							(0,0)			
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2	
2A0001	0.3	0.1	0.8	Loss[W]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
				Loss[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Efficiency[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2A0002	0.6	0.2	1.6	Loss[W]	14.5	13.2	13.1	12.0	11.8	11.2	11.6	11.0	4.2	N/A	
				Loss[%]	4.7	7.0	10.4	7.5	11.2	14.7	12.1	16.0	N/A	N/A	
				Efficiency[%]	95.3	93.0	89.6	92.5	88.8	85.3	87.9	84.0	N/A	N/A	
2A0004	1.1	0.4	3	Loss[W]	24.8	22.3	20.4	19.4	16.8	16.4	17.6	16.6	3.8	N/A	
				Loss[%]	3.4	5.4	8.4	4.4	6.6	10.6	7.7	11.4	N/A	N/A	
				Efficiency[%]	96.6	94.6	91.6	95.6	93.4	89.4	92.3	88.6	N/A	N/A	
2A0006	1.9	0.75	5	Loss[W]	47.0	41.6	35.8	37.2	33.2	27.8	32.5	27.6	3.9	N/A	
				Loss[%]	3.1	4.2	6.1	3.2	4.6	6.7	4.6	6.9	N/A	N/A	
				Efficiency[%]	96.9	95.8	93.9	96.8	95.4	93.3	95.4	93.1	N/A	N/A	
2A0008	2.6	1.1	6.9	Loss[W]	64.9	54.5	48.7	43.5	37.3	33.4	28.8	27.8	4.5	N/A	
				Loss[%]	3.0	4.0	6.1	3.3	4.6	7.4	5.2	9.1	N/A	N/A	
				Efficiency[%]	97.0	96.0	93.9	96.7	95.4	92.6	94.8	90.9	N/A	N/A	
2A0010	3	1.5	8	Loss[W]	71.9	60.9	53.5	44.5	39.0	36.6	31.1	29.1	4.5	N/A	
				Loss[%]	3.4	4.8	7.7	4.0	6.1	11.1	9.4	19.1	N/A	N/A	
				Efficiency[%]	96.6	95.2	92.3	96.0	93.9	88.9	90.6	80.9	N/A	N/A	
2A0012	4.2	2.2	11	Loss[W]	97.2	81.9	73.3	62.0	53.4	49.1	42.3	39.3	4.6	N/A	
				Loss[%]	3.0	4.1	6.8	3.2	4.8	8.5	6.0	10.8	N/A	N/A	
				Efficiency[%]	97.0	95.9	93.2	96.8	95.2	91.5	94.0	89.2	N/A	N/A	
2A0018	5.3	3	14	Loss[W]	113.8	94.9	82.7	72.4	62.8	55.6	47.8	44.6	5.1	N/A	
				Loss[%]	3.1	4.5	8.1	3.6	5.7	11.0	7.9	17.6	N/A	N/A	
				Efficiency[%]	96.9	95.5	91.9	96.4	94.3	89.0	92.1	82.4	N/A	N/A	
2A0020	6.7	3.7	17.5	Loss[W]	158.6	124.6	116.0	91.4	84.8	77.1	58.1	57.1	5.1	N/A	
				Loss[%]	3.2	4.2	6.9	3.0	4.7	7.8	4.6	8.6	N/A	N/A	
				Efficiency[%]	96.8	95.8	93.1	97.0	95.3	92.2	95.4	91.4	N/A	N/A	
2A0030	9.5	5.5	25	Loss[W]	263.9	202.9	175.3	141.8	129.1	112.2	95.0	87.6	9.2	N/A	
				Loss[%]	3.9	5.3	9.4	3.6	6.1	11.6	7.6	15.7	N/A	N/A	
				Efficiency[%]	96.1	94.7	90.6	96.4	93.9	88.4	92.4	84.3	N/A	N/A	
2A0040	12.6	7.5	33	Loss[W]	318.1	266.0	240.7	163.0	142.7	129.2	100.9	92.1	7.7	N/A	
				Loss[%]	3.1	4.2	6.4	2.9	4.2	6.6	4.3	7.0	N/A	N/A	
				Efficiency[%]	96.9	95.8	93.6	97.1	95.8	93.4	95.7	93.0	N/A	N/A	
2A0056	17.9	11	47	Loss[W]	489.8	394.1	360.0	234.2	212.4	183.8	150.1	128.6	7.7	N/A	
				Loss[%]	3.4	4.5	7.3	3.2	4.9	7.9	5.9	9.7	N/A	N/A	
				Efficiency[%]	96.6	95.5	92.7	96.8	95.1	92.1	94.1	90.3	N/A	N/A	

Three-Phase 400V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))							(0,0)		
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2
4A0001	0.9	0.2	1.2	Loss[W]	24.1	22.4	21.2	21.4	20.7	20.5	19.3	19.6	6.0	N/A
				Loss[%]	3.9	5.9	9.3	5.7	8.7	12.4	8.6	12.5	N/A	N/A
				Efficiency[%]	96.1	94.1	90.7	94.3	91.3	87.6	91.4	87.5	N/A	N/A
4A0002	1.4	0.4	1.8	Loss[W]	31.5	29.6	28.7	27.6	26.4	26.0	25.7	25.6	6.5	N/A
				Loss[%]	3.3	5.3	8.6	4.5	7.5	12.0	7.7	12.4	N/A	N/A
				Efficiency[%]	96.7	94.7	91.4	95.5	92.5	88.1	92.3	87.6	N/A	N/A
4A0004	2.6	0.75	3.4	Loss[W]	50.5	47.2	48.0	43.5	41.8	39.4	41.3	39.0	6.0	N/A
				Loss[%]	2.3	3.4	5.4	2.6	3.9	5.8	3.9	5.9	N/A	N/A
				Efficiency[%]	97.7	96.6	94.6	97.4	96.1	94.2	96.1	94.1	N/A	N/A
4A0005	3.7	1.5	4.8	Loss[W]	67.6	57.7	53.8	51.0	47.5	46.1	34.3	38.4	5.8	N/A
				Loss[%]	2.4	3.4	5.9	3.2	5.3	9.3	6.3	12.7	N/A	N/A
				Efficiency[%]	97.6	96.6	94.1	96.8	94.7	90.7	93.7	87.3	N/A	N/A
4A0007	4.2	2.2	5.5	Loss[W]	75.8	64.5	61.8	53.1	45.3	45.8	40.2	38.1	6.4	N/A
				Loss[%]	2.4	3.4	6.3	2.9	4.3	8.8	6.3	12.1	N/A	N/A
				Efficiency[%]	97.6	96.6	93.7	97.1	95.7	91.2	93.7	87.9	N/A	N/A
4A0009	5.5	3	7.2	Loss[W]	109.9	100.4	95.5	79.5	71.6	69.0	61.9	58.4	6.1	N/A
				Loss[%]	2.4	3.6	5.9	2.7	4.1	7.2	4.9	8.7	N/A	N/A
				Efficiency[%]	97.6	96.4	94.1	97.3	95.9	92.8	95.1	91.3	N/A	N/A
4A0011	7	3.7	9.2	Loss[W]	135.1	112.9	118.3	77.6	91.6	87.3	83.1	73.0	7.0	N/A
				Loss[%]	2.5	3.7	7.8	2.4	5.1	10.3	6.8	13.6	N/A	N/A
				Efficiency[%]	97.5	96.3	92.2	97.6	94.9	89.7	93.2	86.4	N/A	N/A
4A0018	11.3	5.5	14.8	Loss[W]	222.0	192.1	179.3	146.0	127.7	119.4	105.0	98.6	10.7	N/A
				Loss[%]	2.7	4.1	8.0	2.9	4.7	9.4	5.7	11.9	N/A	N/A
				Efficiency[%]	97.3	95.9	92.0	97.1	95.3	90.6	94.3	88.1	N/A	N/A
4A0023	13.7	7.5	18	Loss[W]	309.6	219.5	210.7	123.0	126.8	129.9	101.1	94.1	10.5	N/A
				Loss[%]	2.9	3.6	6.6	2.3	4.2	8.8	5.9	11.9	N/A	N/A
				Efficiency[%]	97.1	96.4	93.4	97.7	95.8	91.2	94.1	88.1	N/A	N/A
4A0031	18.3	11	24	Loss[W]	386.0	332.6	312.0	206.4	179.3	176.9	136.9	131.4	10.5	N/A
				Loss[%]	2.6	3.7	6.2	2.7	4.0	7.5	5.2	9.6	N/A	N/A
				Efficiency[%]	97.4	96.3	93.8	97.3	96.0	92.5	94.8	90.4	N/A	N/A
4A0038	23.6	15	31	Loss[W]	466.3	393.3	380.5	243.1	210.3	212.8	157.0	151.6	11.7	N/A
				Loss[%]	2.4	3.4	5.6	2.3	3.4	6.1	3.7	6.7	N/A	N/A
				Efficiency[%]	97.6	96.6	94.4	97.7	96.6	93.9	96.3	93.3	N/A	N/A

【ECO-Design Efficiency Measurement Result】

Series	V1000 Finless (ND)	Maximum °C Operating Temperature()	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)
	CIMR-V□□□□□□□□* CIMR-V□□□□□□□□L*			

*1 Cooling Fan OFF (Only Loss[W] is listed)

*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Single-Phase 200V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
BA0001	0.5	0.2	1.2	Loss[W]	12.8	11.1	9.9	9.8	8.9	8.4	8.7	8.3	4.1	N/A
				Loss[%]	4.5	6.1	8.7	5.5	8.0	12.3	8.5	12.8	N/A	N/A
				Efficiency[%]	95.5	93.9	91.3	94.5	92.0	87.7	91.5	87.2	N/A	N/A
BA0002	0.7	0.4	1.9	Loss[W]	17.1	14.4	12.9	13.5	11.5	10.7	11.4	10.4	4.2	N/A
				Loss[%]	3.8	5.2	8.2	4.6	6.6	10.8	7.0	11.2	N/A	N/A
				Efficiency[%]	96.2	94.8	91.8	95.4	93.4	89.2	93.0	88.8	N/A	N/A
BA0003	1.3	0.75	3.3	Loss[W]	27.3	22.4	19.5	20.8	17.2	15.7	16.8	15.2	3.7	N/A
				Loss[%]	3.2	4.3	6.7	3.5	4.9	8.1	5.0	8.2	N/A	N/A
				Efficiency[%]	96.8	95.7	93.3	96.5	95.1	91.9	95.0	91.8	N/A	N/A
BA0006	2.3	1.1	6	Loss[W]	70.7	48.4	38.4	38.6	30.9	24.5	22.7	19.7	4.8	N/A
				Loss[%]	4.0	4.4	5.9	3.7	4.8	6.7	5.3	8.4	N/A	N/A
				Efficiency[%]	96.0	95.6	94.1	96.3	95.2	93.3	94.7	91.6	N/A	N/A
BA0010	3.7	2.2	9.6	Loss[W]	118.6	80.3	62.2	60.3	47.3	39.0	33.9	30.7	5.1	N/A
				Loss[%]	4.5	5.0	7.1	4.1	5.5	8.8	7.0	13.1	N/A	N/A
				Efficiency[%]	95.5	95.0	92.9	95.9	94.5	91.2	93.0	86.9	N/A	N/A
BA0012	4.6	3	12	Loss[W]	110.4	86.4	74.9	68.0	56.4	47.4	43.9	38.3	5.0	N/A
				Loss[%]	3.1	3.9	5.9	3.1	4.3	6.5	4.8	8.0	N/A	N/A
				Efficiency[%]	96.9	96.1	94.1	96.9	95.7	93.5	95.2	92.0	N/A	N/A

Three-Phase 200V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
2A0001	0.5	0.2	1.2	Loss[W]	11.7	10.4	9.8	9.4	8.6	8.2	8.7	8.0	4.1	N/A
				Loss[%]	4.0	5.6	8.4	4.9	7.3	11.2	7.8	11.6	N/A	N/A
				Efficiency[%]	96.0	94.4	91.6	95.1	92.7	88.8	92.2	88.4	N/A	N/A
2A0002	0.7	0.4	1.9	Loss[W]	15.0	13.5	12.7	12.3	11.1	10.5	11.1	10.1	4.0	N/A
				Loss[%]	3.2	4.7	7.7	3.9	5.9	10.0	6.3	10.4	N/A	N/A
				Efficiency[%]	96.8	95.3	92.3	96.1	94.1	90.0	93.7	89.6	N/A	N/A
2A0004	1.3	0.75	3.5	Loss[W]	27.4	24.0	21.0	21.0	18.6	16.3	17.4	15.8	4.0	N/A
				Loss[%]	2.9	4.2	6.6	3.2	4.8	7.8	4.7	7.9	N/A	N/A
				Efficiency[%]	97.1	95.8	93.4	96.8	95.2	92.2	95.3	92.1	N/A	N/A
2A0006	2.3	1.1	6	Loss[W]	49.9	42.2	37.0	32.7	28.2	25.2	22.6	20.4	4.0	N/A
				Loss[%]	2.8	3.8	5.7	3.1	4.4	7.0	5.2	8.7	N/A	N/A
				Efficiency[%]	97.2	96.2	94.3	96.9	95.6	93.0	94.8	91.3	N/A	N/A
2A0008	3	1.5	8	Loss[W]	65.4	55.5	48.1	40.8	36.1	32.0	27.9	26.0	4.8	N/A
				Loss[%]	3.1	4.4	6.9	3.7	5.6	9.7	8.6	16.7	N/A	N/A
				Efficiency[%]	96.9	95.6	93.1	96.3	94.4	90.3	91.4	83.3	N/A	N/A
2A0010	3.7	2.2	9.6	Loss[W]	81.1	65.8	57.1	47.5	42.2	38.2	32.9	30.7	4.7	N/A
				Loss[%]	3.0	4.1	6.6	3.2	5.0	8.8	6.9	13.1	N/A	N/A
				Efficiency[%]	97.0	95.9	93.4	96.8	95.0	91.2	93.1	86.9	N/A	N/A
2A0012	4.6	3	12	Loss[W]	98.4	80.6	72.3	62.0	54.1	48.0	42.6	38.2	4.4	N/A
				Loss[%]	2.8	3.7	5.7	2.9	4.1	6.5	4.6	7.6	N/A	N/A
				Efficiency[%]	97.2	96.3	94.3	97.1	95.9	93.5	95.4	92.4	N/A	N/A
2A0018	6.7	3.7	17.5	Loss[W]	139.7	114.5	98.0	85.9	75.4	63.5	56.9	49.9	5.0	N/A
				Loss[%]	2.8	3.8	6.2	2.8	4.2	7.1	4.7	8.6	N/A	N/A
				Efficiency[%]	97.2	96.2	93.8	97.2	95.8	92.9	95.3	91.4	N/A	N/A
2A0020	7.5	5.5	19.6	Loss[W]	151.4	128.2	106.3	97.3	90.0	72.0	58.0	55.3	4.8	N/A
				Loss[%]	3.2	4.6	7.3	3.6	5.8	9.5	6.4	13.9	N/A	N/A
				Efficiency[%]	96.8	95.4	92.7	96.4	94.2	90.5	93.6	86.1	N/A	N/A
2A0030	11.4	7.5	30	Loss[W]	297.8	241.5	211.9	142.5	117.4	106.3	75.7	73.8	8.7	N/A
				Loss[%]	3.5	4.7	7.7	3.5	5.1	9.2	6.9	16.4	N/A	N/A
				Efficiency[%]	96.5	95.3	92.3	96.5	94.9	90.8	93.1	83.6	N/A	N/A
2A0040	15.2	11	40	Loss[W]	385.6	317.9	273.7	178.3	150.9	138.6	102.0	93.4	8.7	N/A
				Loss[%]	3.2	4.3	6.4	3.1	4.4	7.3	6.1	10.8	N/A	N/A
				Efficiency[%]	96.8	95.7	93.6	96.9	95.6	92.7	93.9	89.2	N/A	N/A
2A0056	21.3	15	56	Loss[W]	560.3	436.5	371.2	256.9	218.0	188.1	149.5	128.7	8.1	N/A
				Loss[%]	3.3	4.2	6.2	2.8	4.0	6.2	4.2	6.7	N/A	N/A
				Efficiency[%]	96.7	95.8	93.8	97.2	96.0	93.8	95.8	93.3	N/A	N/A

Three-Phase 400V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
4A0001	0.9	0.4	1.2	Loss[W]	17.0	15.1	15.1	14.2	13.7	13.9	13.4	13.0	5.9	N/A
				Loss[%]	2.6	3.8	6.3	3.3	5.2	9.0	5.4	8.9	N/A	N/A
				Efficiency[%]	97.4	96.2	93.7	96.7	94.8	91.0	94.6	91.1	N/A	N/A
4A0002	1.6	0.75	2.1	Loss[W]	24.3	22.9	20.9	21.1	18.7	17.9	18.9	17.6	6.5	N/A
				Loss[%]	2.0	3.1	4.9	2.4	3.6	6.2	3.8	6.4	N/A	N/A
				Efficiency[%]	98.0	96.9	95.1	97.6	96.4	93.8	96.2	93.6	N/A	N/A
4A0004	3.1	1.5	4.1	Loss[W]	40.8	37.2	34.6	29.7	26.4	25.1	22.1	20.9	6.0	N/A
				Loss[%]	1.9	2.9	5.1	2.7	4.2	7.5	7.2	12.6	N/A	N/A
				Efficiency[%]	98.1	97.1	94.9	97.3	95.8	92.5	92.8	87.4	N/A	N/A
4A0005	4.1	2.2	5.4	Loss[W]	58.3	48.4	46.8	38.1	34.3	33.4	26.8	27.7	6.6	N/A
				Loss[%]	1.9	2.6	4.9	2.1	3.3	6.5	4.2	9.0	N/A	N/A
				Efficiency[%]	98.1	97.4	95.1	97.9	96.7	93.5	95.8	91.0	N/A	N/A
4A0007	5.3	3	6.9	Loss[W]	74.0	62.0	58.9	47.2	43.8	36.7	32.6	32.5	6.2	N/A
				Loss[%]	1.8	2.4	4.0	1.8	2.7	4.2	2.8	5.2	N/A	N/A
				Efficiency[%]	98.2	97.6	96.0	98.2	97.3	95.8	97.2	94.8	N/A	N/A
4A0009	6.7	3.7	8.8	Loss[W]	125.5	94.4	63.0	52.7	63.9	49.8	62.5	41.0	6.0	N/A
				Loss[%]	2.5	3.3	4.6	1.8	3.8	6.6	5.7	8.6	N/A	N/A
				Efficiency[%]	97.5	96.7	95.4	98.2	96.2	93.4	94.3	91.4	N/A	N/A
4A0011	8.5	5.5	11.1	Loss[W]	126.9	109.2	101.4	88.5	74.5	72.0	61.7	59.3	6.1	N/A
				Loss[%]	2.0	2.9	4.8	2.2	3.1	5.5	3.5	6.4	N/A	N/A
				Efficiency[%]	98.0	97.1	95.2	97.8	96.9	94.5	96.5	93.6	N/A	N/A
4A0018	13.3	7.5	17.5	Loss[W]	231.8	183.5	160.7	110.6	93.5	89.5	70.2	61.6	10.4	N/A
				Loss[%]	2.3	3.1	5.2	2.2	3.3	6.5	4.4	8.7	N/A	N/A
				Efficiency[%]	97.7	96.9	94.8	97.8	96.7	93.5	95.6	91.3	N/A	N/A
4A0023	17.5	11	23	Loss[W]	301.8	240.1	204.8	146.4	119.0	110.6	87.9	79.5	10.3	N/A
				Loss[%]	2.2	2.9	4.3	2.1	2.9	5.0	3.6	6.4	N/A	N/A
				Efficiency[%]	97.8	97.1	95.7	97.9	97.1	95.0	96.4	93.6	N/A	N/A
4A0031	23.6	15	31	Loss[W]	445.1	346.4	308.4	215.1	178.6	157.8	133.3	111.2	11.1	N/A
				Loss[%]	2.3	3.0	4.6	2.1	2.9	4.6	3.2	4.9	N/A	N/A
				Efficiency[%]	97.7	97.0	95.4	97.9	97.1	95.4	96.8	95.1	N/A	N/A
4A0038	29	18.5	38	Loss[W]	484.5	388.2	345.6	233.1	198.3	181.0	139.9	130.2	11.8	N/A
				Loss[%]	2.1	2.8	4.5	1.9	2.8	4.7	3.1	5.5	N/A	N/A
				Efficiency[%]	97.9	97.2	95.5	98.1	97.2	95.3	96.9	94.5	N/A	N/A

【ECO-Design Efficiency Measurement Result】

Series	J1000 (HD)	Maximum Operating Temperature(°C)	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)
	JZA□□□□□□B*			

*1 Cooling Fan OFF (Only Loss[W] is listed)

*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Single-Phase 200V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									(0,0)	
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2	
					BA0001	0.3	0.1	0.8	Loss[W]	N/A	N/A	N/A	N/A	N/A	N/A
				Loss[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
				Efficiency[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
BA0002	0.6	0.2	1.6	Loss[W]	16.5	14.8	14.3	12.8	12.5	11.9	11.9	11.4	4.1	N/A	
				Loss[%]	5.4	7.9	11.5	8.0	11.9	16.0	12.1	16.7	N/A	N/A	
				Efficiency[%]	94.6	92.1	88.5	92.0	88.1	84.0	87.9	83.3	N/A	N/A	
BA0003	1.1	0.4	3	Loss[W]	28.6	22.6	20.5	20.7	17.2	16.6	17.9	16.3	3.9	N/A	
				Loss[%]	4.0	5.4	8.3	4.4	6.4	10.3	7.1	10.8	N/A	N/A	
				Efficiency[%]	96.0	94.6	91.7	95.6	93.6	89.7	92.9	89.2	N/A	N/A	
BA0006	1.9	0.75	5	Loss[W]	48.2	39.7	33.8	35.4	30.7	29.2	29.5	26.8	4.7	N/A	
				Loss[%]	3.2	4.0	5.7	3.1	4.2	6.8	4.2	6.5	N/A	N/A	
				Efficiency[%]	96.8	96.0	94.3	96.9	95.8	93.2	95.8	93.5	N/A	N/A	
BA0010	3	1.5	8	Loss[W]	77.3	61.3	53.4	45.8	39.1	35.3	31.0	28.2	4.7	6.9	
				Loss[%]	3.7	4.8	7.4	3.9	5.7	10.0	7.7	15.2	N/A	N/A	
				Efficiency[%]	96.3	95.2	92.6	96.1	94.3	90.0	92.3	84.8	N/A	N/A	

Three-Phase 200V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									(0,0)	
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2	
					2A0001	0.3	0.1	0.8	Loss[W]	N/A	N/A	N/A	N/A	N/A	N/A
				Loss[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
				Efficiency[%]	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
2A0002	0.6	0.2	1.6	Loss[W]	14.5	13.2	13.1	12.0	11.8	11.2	11.6	11.0	4.2	N/A	
				Loss[%]	4.7	7.0	10.4	7.5	11.2	14.7	12.1	16.0	N/A	N/A	
				Efficiency[%]	95.3	93.0	89.6	92.5	88.8	85.3	87.9	84.0	N/A	N/A	
2A0004	1.1	0.4	3	Loss[W]	24.8	22.3	20.4	19.4	16.8	16.4	17.6	16.6	3.8	N/A	
				Loss[%]	3.4	5.4	8.4	4.4	6.6	10.6	7.7	11.4	N/A	N/A	
				Efficiency[%]	96.6	94.6	91.6	95.6	93.4	89.4	92.3	88.6	N/A	N/A	
2A0006	1.9	0.75	5	Loss[W]	47.0	41.6	35.8	37.2	33.2	27.8	32.5	27.6	3.9	5.6	
				Loss[%]	3.1	4.2	6.1	3.2	4.6	6.7	4.6	6.9	N/A	N/A	
				Efficiency[%]	96.9	95.8	93.9	96.8	95.4	93.3	95.4	93.1	N/A	N/A	
2A0008	2.6	1.1	6.9	Loss[W]	64.9	54.5	48.7	43.5	37.3	33.4	28.8	27.8	4.5	6.5	
				Loss[%]	3.0	4.0	6.1	3.3	4.6	7.4	5.2	9.1	N/A	N/A	
				Efficiency[%]	97.0	96.0	93.9	96.7	95.4	92.6	94.8	90.9	N/A	N/A	
2A0010	3	1.5	8	Loss[W]	71.9	60.9	53.5	44.5	39.0	36.6	31.1	29.1	4.5	6.7	
				Loss[%]	3.4	4.8	7.7	4.0	6.1	11.1	9.4	19.1	N/A	N/A	
				Efficiency[%]	96.6	95.2	92.3	96.0	93.9	88.9	90.6	80.9	N/A	N/A	
2A0012	4.2	2.2	11	Loss[W]	97.2	81.9	73.3	62.0	53.4	49.1	42.3	39.3	4.6	7.6	
				Loss[%]	3.0	4.1	6.8	3.2	4.8	8.5	6.0	10.8	N/A	N/A	
				Efficiency[%]	97.0	95.9	93.2	96.8	95.2	91.5	94.0	89.2	N/A	N/A	
2A0018	5.3	3	14	Loss[W]	113.8	94.9	82.7	72.4	62.8	55.6	47.8	44.6	5.1	8.3	
				Loss[%]	3.1	4.5	8.1	3.6	5.7	11.0	7.9	17.6	N/A	N/A	
				Efficiency[%]	96.9	95.5	91.9	96.4	94.3	89.0	92.1	82.4	N/A	N/A	
2A0020	6.7	3.7	17.5	Loss[W]	158.6	124.6	116.0	91.4	84.8	77.1	58.1	57.1	5.1	8.2	
				Loss[%]	3.2	4.2	6.9	3.0	4.7	7.8	4.6	8.6	N/A	N/A	
				Efficiency[%]	96.8	95.8	93.1	97.0	95.3	92.2	95.4	91.4	N/A	N/A	

Three-Phase 400V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									(0,0)	
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	Fan OFF *1	Fan ON *2	
					4A0001	0.9	0.2	1.2	Loss[W]	24.1	22.4	21.2	21.4	20.7	20.5
				Loss[%]	3.9	5.9	9.3	5.7	8.7	12.4	8.6	12.5	N/A	N/A	
				Efficiency[%]	96.1	94.1	90.7	94.3	91.3	87.6	91.4	87.5	N/A	N/A	
4A0002	1.4	0.4	1.8	Loss[W]	31.5	29.6	28.7	27.6	26.4	26.0	25.7	25.6	6.5	N/A	
				Loss[%]	3.3	5.3	8.6	4.5	7.5	12.0	7.7	12.4	N/A	N/A	
				Efficiency[%]	96.7	94.7	91.4	95.5	92.5	88.1	92.3	87.6	N/A	N/A	
4A0004	2.6	0.75	3.4	Loss[W]	50.5	47.2	48.0	43.5	41.8	39.4	41.3	39.0	6.0	N/A	
				Loss[%]	2.3	3.4	5.4	2.6	3.9	5.8	3.9	5.9	N/A	N/A	
				Efficiency[%]	97.7	96.6	94.6	97.4	96.1	94.2	96.1	94.1	N/A	N/A	
4A0005	3.7	1.5	4.8	Loss[W]	67.6	57.7	53.8	51.0	47.5	46.1	34.3	38.4	5.8	8.0	
				Loss[%]	2.4	3.4	5.9	3.2	5.3	9.3	6.3	12.7	N/A	N/A	
				Efficiency[%]	97.6	96.6	94.1	96.8	94.7	90.7	93.7	87.3	N/A	N/A	
4A0007	4.2	2.2	5.5	Loss[W]	75.8	64.5	61.8	53.1	45.3	45.8	40.2	38.1	6.4	7.7	
				Loss[%]	2.4	3.4	6.3	2.9	4.3	8.8	6.3	12.1	N/A	N/A	
				Efficiency[%]	97.6	96.6	93.7	97.1	95.7	91.2	93.7	87.9	N/A	N/A	
4A0009	5.5	3	7.2	Loss[W]	109.9	100.4	95.5	79.5	71.6	69.0	61.9	58.4	6.1	10.1	
				Loss[%]	2.4	3.6	5.9	2.7	4.1	7.2	4.9	8.7	N/A	N/A	
				Efficiency[%]	97.6	96.4	94.1	97.3	95.9	92.8	95.1	91.3	N/A	N/A	
4A0011	7	3.7	9.2	Loss[W]	135.1	112.9	118.3	77.6	91.6	87.3	83.1	73.0	7.0	9.8	
				Loss[%]	2.5	3.7	7.8	2.4	5.1	10.3	6.8	13.6	N/A	N/A	
				Efficiency[%]	97.5	96.3	92.2	97.6	94.9	89.7	93.2	86.4	N/A	N/A	

[ECO-Design Efficiency Measurement Result]

Series	J1000 (ND)	Maximum °C Operating Temperature()	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)
	JZA□□□□□□B*	50	50/60	200-240/ 380-480

*1 Cooling Fan OFF (Only Loss[W] is listed)

*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Single-Phase 200V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
BA0001	0.5	0.2	1.2	Loss[W]	12.8	11.1	9.9	9.8	8.9	8.4	8.7	8.3	4.1	N/A
				Loss[%]	4.5	6.1	8.7	5.5	8.0	12.3	8.5	12.8	N/A	N/A
				Efficiency[%]	95.5	93.9	91.3	94.5	92.0	87.7	91.5	87.2	N/A	N/A
BA0002	0.7	0.4	1.9	Loss[W]	17.1	14.4	12.9	13.5	11.5	10.7	11.4	10.4	4.2	N/A
				Loss[%]	3.8	5.2	8.2	4.6	6.6	10.8	7.0	11.2	N/A	N/A
				Efficiency[%]	96.2	94.8	91.8	95.4	93.4	89.2	93.0	88.8	N/A	N/A
BA0003	1.3	0.75	3.3	Loss[W]	27.3	22.4	19.5	20.8	17.2	15.7	16.8	15.2	3.7	N/A
				Loss[%]	3.2	4.3	6.7	3.5	4.9	8.1	5.0	8.2	N/A	N/A
				Efficiency[%]	96.8	95.7	93.3	96.5	95.1	91.9	95.0	91.8	N/A	N/A
BA0006	2.3	1.1	6	Loss[W]	70.7	48.4	38.4	38.6	30.9	24.5	22.7	19.7	4.8	N/A
				Loss[%]	4.0	4.4	5.9	3.7	4.8	6.7	5.3	8.4	N/A	N/A
				Efficiency[%]	96.0	95.6	94.1	96.3	95.2	93.3	94.7	91.6	N/A	N/A
BA0010	3.7	2.2	9.6	Loss[W]	118.6	80.3	62.2	60.3	47.3	39.0	33.9	30.7	5.1	6.9
				Loss[%]	4.5	5.0	7.1	4.1	5.5	8.8	7.0	13.1	N/A	N/A
				Efficiency[%]	95.5	95.0	92.9	95.9	94.5	91.2	93.0	86.9	N/A	N/A

Three-Phase 200V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
2A0001	0.5	0.2	1.2	Loss[W]	11.7	10.4	9.8	9.4	8.6	8.2	8.7	8.0	4.1	N/A
				Loss[%]	4.0	5.6	8.4	4.9	7.3	11.2	7.8	11.6	N/A	N/A
				Efficiency[%]	96.0	94.4	91.6	95.1	92.7	88.8	92.2	88.4	N/A	N/A
2A0002	0.7	0.4	1.9	Loss[W]	15.0	13.5	12.7	12.3	11.1	10.5	11.1	10.1	4.0	N/A
				Loss[%]	3.2	4.7	7.7	3.9	5.9	10.0	6.3	10.4	N/A	N/A
				Efficiency[%]	96.8	95.3	92.3	96.1	94.1	90.0	93.7	89.6	N/A	N/A
2A0004	1.3	0.75	3.5	Loss[W]	27.4	24.0	21.0	21.0	18.6	16.3	17.4	15.8	4.0	N/A
				Loss[%]	2.9	4.2	6.6	3.2	4.8	7.8	4.7	7.9	N/A	N/A
				Efficiency[%]	97.1	95.8	93.4	96.8	95.2	92.2	95.3	92.1	N/A	N/A
2A0006	2.3	1.1	6	Loss[W]	49.9	42.2	37.0	32.7	28.2	25.2	22.6	20.4	4.0	5.6
				Loss[%]	2.8	3.8	5.7	3.1	4.4	7.0	5.2	8.7	N/A	N/A
				Efficiency[%]	97.2	96.2	94.3	96.9	95.6	93.0	94.8	91.3	N/A	N/A
2A0008	3	1.5	8	Loss[W]	65.4	55.5	48.1	40.8	36.1	32.0	27.9	26.0	4.8	6.6
				Loss[%]	3.1	4.4	6.9	3.7	5.6	9.7	8.6	16.7	N/A	N/A
				Efficiency[%]	96.9	95.6	93.1	96.3	94.4	90.3	91.4	83.3	N/A	N/A
2A0010	3.7	2.2	9.6	Loss[W]	81.1	65.8	57.1	47.5	42.2	38.2	32.9	30.7	4.7	6.7
				Loss[%]	3.0	4.1	6.6	3.2	5.0	8.8	6.9	13.1	N/A	N/A
				Efficiency[%]	97.0	95.9	93.4	96.8	95.0	91.2	93.1	86.9	N/A	N/A
2A0012	4.6	3	12	Loss[W]	98.4	80.6	72.3	62.0	54.1	48.0	42.6	38.2	4.4	7.8
				Loss[%]	2.8	3.7	5.7	2.9	4.1	6.5	4.6	7.6	N/A	N/A
				Efficiency[%]	97.2	96.3	94.3	97.1	95.9	93.5	95.4	92.4	N/A	N/A
2A0018	6.7	3.7	17.5	Loss[W]	139.7	114.5	98.0	85.9	75.4	63.5	56.9	49.9	5.0	8.6
				Loss[%]	2.8	3.8	6.2	2.8	4.2	7.1	4.7	8.6	N/A	N/A
				Efficiency[%]	97.2	96.2	93.8	97.2	95.8	92.9	95.3	91.4	N/A	N/A
2A0020	7.5	5.5	19.6	Loss[W]	151.4	128.2	106.3	97.3	90.0	72.0	58.0	55.3	4.8	8.2
				Loss[%]	3.2	4.6	7.3	3.6	5.8	9.5	6.4	13.9	N/A	N/A
				Efficiency[%]	96.8	95.4	92.7	96.4	94.2	90.5	93.6	86.1	N/A	N/A

Three-Phase 400V Class(ND)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
4A0001	0.9	0.4	1.2	Loss[W]	17.0	15.1	15.1	14.2	13.7	13.9	13.4	13.0	5.9	N/A
				Loss[%]	2.6	3.8	6.3	3.3	5.2	9.0	5.4	8.9	N/A	N/A
				Efficiency[%]	97.4	96.2	93.7	96.7	94.8	91.0	94.6	91.1	N/A	N/A
4A0002	1.6	0.75	2.1	Loss[W]	24.3	22.9	20.9	21.1	18.7	17.9	18.9	17.6	6.5	N/A
				Loss[%]	2.0	3.1	4.9	2.4	3.6	6.2	3.8	6.4	N/A	N/A
				Efficiency[%]	98.0	96.9	95.1	97.6	96.4	93.8	96.2	93.6	N/A	N/A
4A0004	3.1	1.5	4.1	Loss[W]	40.8	37.2	34.6	29.7	26.4	25.1	22.1	20.9	6.0	N/A
				Loss[%]	1.9	2.9	5.1	2.7	4.2	7.5	7.2	12.6	N/A	N/A
				Efficiency[%]	98.1	97.1	94.9	97.3	95.8	92.5	92.8	87.4	N/A	N/A
4A0005	4.1	2.2	5.4	Loss[W]	58.3	48.4	46.8	38.1	34.3	33.4	26.8	27.7	6.6	7.5
				Loss[%]	1.9	2.6	4.9	2.1	3.3	6.5	4.2	9.0	N/A	N/A
				Efficiency[%]	98.1	97.4	95.1	97.9	96.7	93.5	95.8	91.0	N/A	N/A
4A0007	5.3	3	6.9	Loss[W]	74.0	62.0	58.9	47.2	43.8	36.7	32.6	32.5	6.2	7.5
				Loss[%]	1.8	2.4	4.0	1.8	2.7	4.2	2.8	5.2	N/A	N/A
				Efficiency[%]	98.2	97.6	96.0	98.2	97.3	95.8	97.2	94.8	N/A	N/A
4A0009	6.7	3.7	8.8	Loss[W]	125.5	94.4	63.0	52.7	63.9	49.8	62.5	41.0	6.0	9.7
				Loss[%]	2.5	3.3	4.6	1.8	3.8	6.6	5.7	8.6	N/A	N/A
				Efficiency[%]	97.5	96.7	95.4	98.2	96.2	93.4	94.3	91.4	N/A	N/A
4A0011	8.5	5.5	11.1	Loss[W]	126.9	109.2	101.4	88.5	74.5	72.0	61.7	59.3	6.1	9.3
				Loss[%]	2.0	2.9	4.8	2.2	3.1	5.5	3.5	6.4	N/A	N/A
				Efficiency[%]	98.0	97.1	95.2	97.8	96.9	94.5	96.5	93.6	N/A	N/A

[ECO-Design Efficiency Measurement Result]

Series	L1000V (HD)	Maximum °C Operating Temperature()	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)
	CIMR-LxxxxxB*	50	50/60	200-240/ 380-480

*1 Cooling Fan OFF (Only Loss[W] is listed)

*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Three-Phase 200V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
2V0025	9.5	5.5	25	Loss[W]	214.4	181.2	165.9	125.8	120.6	103.5	90.9	83.3	8.7	12.9
				Loss[%]	2.3	1.9	1.7	1.3	1.3	1.1	1.0	0.9	N/A	N/A
				Efficiency[%]	96.8	95.2	90.9	96.8	94.3	89.0	92.7	84.8	N/A	N/A
2V0033	12.6	7.5	33	Loss[W]	297.6	248.4	227.4	157.8	134.2	124.8	100.4	91.4	7.9	13.4
				Loss[%]	2.4	2.0	1.8	1.3	1.1	1.0	0.8	0.7	N/A	N/A
				Efficiency[%]	97.1	96.0	94.0	97.2	96.1	93.7	95.8	93.1	N/A	N/A
2V0047	17.9	11	47	Loss[W]	507.2	403.6	369.7	247.3	214.0	196.4	155.1	136.9	8.2	17.2
				Loss[%]	2.8	2.3	2.1	1.4	1.2	1.1	0.9	0.8	N/A	N/A
				Efficiency[%]	96.5	95.4	92.6	96.7	95.1	91.6	93.9	89.8	N/A	N/A
2V0060	22.9	15	60	Loss[W]	658.9	534.9	488.4	331.3	271.7	253.8	199.6	174.9	9.8	19.4
				Loss[%]	2.9	2.3	2.1	1.4	1.2	1.1	0.9	0.8	N/A	N/A
				Efficiency[%]	96.4	95.1	92.1	96.6	95.2	91.7	94.4	90.8	N/A	N/A

Three-Phase 400V Class(HD)

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
4V0015	11.3	5.5	14.8	Loss[W]	215.3	182.9	165.6	140.2	118.0	112.1	106.9	101.6	11.0	15.8
				Loss[%]	1.9	1.6	1.5	1.2	1.0	1.0	0.9	0.9	N/A	N/A
				Efficiency[%]	97.4	96.1	92.7	97.2	95.7	91.3	94.3	88.3	N/A	N/A
4V0018	13.7	7.5	18	Loss[W]	305.5	251.5	227.2	174.0	139.5	138.9	116.4	103.8	10.5	15.9
				Loss[%]	2.2	1.8	1.7	1.3	1.0	1.0	0.8	0.8	N/A	N/A
				Efficiency[%]	97.1	96.0	93.0	96.8	95.4	90.7	93.3	87.2	N/A	N/A
4V0024	18.3	11	24	Loss[W]	380.0	308.3	300.6	196.6	173.2	166.9	126.9	120.8	9.6	16.3
				Loss[%]	2.1	1.7	1.6	1.1	0.9	0.9	0.7	0.7	N/A	N/A
				Efficiency[%]	97.4	96.5	94.0	97.4	96.1	92.9	95.2	90.9	N/A	N/A
4V0031	23.6	15	31	Loss[W]	491.6	397.8	380.7	260.0	220.8	212.3	161.8	154.5	11.3	19.8
				Loss[%]	2.1	1.7	1.6	1.1	0.9	0.9	0.7	0.7	N/A	N/A
				Efficiency[%]	97.4	96.6	94.4	97.5	96.5	93.9	96.2	93.2	N/A	N/A

[ECO-Design Efficiency Measurement Result]

Series	L1000A	Maximum Operating Temperature(℃)	Rated Supply Frequency(Hz)	Rated Supply Voltage(V)
	CIMR-LxxxxxxB*	50	50/60	200-240/ 380-480

*1 Cooling Fan OFF (Only Loss[W] is listed)

*2 Cooling Fan ON (Not listed for inverters without cooling fan)

Three-Phase 200V Class

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
2A0008	3	1.5	8	Loss[W]	62.9	53.0	47.8	38.4	34.3	32.5	26.6	26.1	9.7	N/A
				Loss[%]	2.1	1.8	1.6	1.3	1.1	1.1	0.9	0.9	N/A	N/A
				Efficiency[%]	97.0	95.8	93.1	96.5	94.6	90.3	91.2	83.4	N/A	N/A
2A0011	4.2	2.2	11	Loss[W]	96.3	80.3	71.1	60.7	53.1	48.6	42.1	40.1	9.8	N/A
				Loss[%]	2.3	1.9	1.7	1.4	1.3	1.2	1.0	1.0	N/A	N/A
				Efficiency[%]	97.1	96.0	93.4	96.8	95.2	91.8	94.2	89.2	N/A	N/A
2A0018	6.7	3.7	17.5	Loss[W]	149.8	128.3	111.2	100.0	83.5	77.2	71.7	56.8	11.3	13.6
				Loss[%]	2.2	1.9	1.7	1.5	1.2	1.2	1.1	0.8	N/A	N/A
				Efficiency[%]	97.0	95.8	93.0	96.8	95.3	91.5	94.1	90.4	N/A	N/A
2A0025	9.5	5.5	25	Loss[W]	216.3	167.6	165.2	131.0	117.5	109.6	95.4	88.8	10.7	18.3
				Loss[%]	2.3	1.8	1.7	1.4	1.2	1.2	1.0	0.9	N/A	N/A
				Efficiency[%]	96.8	95.6	90.9	96.7	94.5	88.6	92.6	83.7	N/A	N/A
2A0033	12.6	7.5	33	Loss[W]	308.0	256.2	209.1	149.4	135.0	117.1	102.4	95.0	10.0	17.8
				Loss[%]	2.4	2.0	1.7	1.2	1.1	0.9	0.8	0.8	N/A	N/A
				Efficiency[%]	96.8	95.5	93.4	97.0	95.3	92.2	94.1	88.8	N/A	N/A
2A0047	17.9	11	47	Loss[W]	537.0	439.1	385.3	266.1	228.6	206.4	162.4	150.4	11.0	21.5
				Loss[%]	3.0	2.5	2.2	1.5	1.3	1.2	0.9	0.8	N/A	N/A
				Efficiency[%]	96.3	95.0	92.3	96.4	94.7	91.1	93.7	88.6	N/A	N/A
2A0060	23	15	60	Loss[W]	715.0	593.0	516.0	328.0	289.0	262.0	203.0	192.0	11.0	21.0
				Loss[%]	3.1	2.6	2.2	1.4	1.3	1.1	0.9	0.8	N/A	N/A
				Efficiency[%]	95.6	93.9	90.0	95.8	93.5	87.9	89.9	75.3	N/A	N/A
2A0075	29	18.5	75	Loss[W]	870.0	731.0	656.0	438.0	377.0	341.0	269.0	249.0	14.0	25.0
				Loss[%]	3.0	2.5	2.3	1.5	1.3	1.2	0.9	0.9	N/A	N/A
				Efficiency[%]	96.2	94.7	91.8	96.5	95.0	91.9	94.8	91.2	N/A	N/A
2A0085	32	22	85	Loss[W]	919.0	811.0	711.0	517.0	427.0	376.0	308.0	278.0	15.0	20.0
				Loss[%]	2.9	2.5	2.2	1.6	1.3	1.2	1.0	0.9	N/A	N/A
				Efficiency[%]	96.2	94.6	91.9	96.3	94.9	92.1	94.8	91.5	N/A	N/A
2A0115	44	30	115	Loss[W]	1191.0	1047.0	947.0	639.0	565.0	500.0	401.0	364.0	17.0	33.0
				Loss[%]	2.7	2.4	2.2	1.5	1.3	1.1	0.9	0.8	N/A	N/A
				Efficiency[%]	96.4	94.8	91.8	96.4	94.5	91.0	93.6	88.7	N/A	N/A
2A0145	55	37	145	Loss[W]	1359.0	1168.0	1041.0	734.0	635.0	566.0	480.0	411.0	33.0	53.0
				Loss[%]	2.5	2.1	1.9	1.3	1.2	1.0	0.9	0.7	N/A	N/A
				Efficiency[%]	96.8	95.4	92.9	96.9	95.5	92.7	95.0	92.0	N/A	N/A
2A0180	69	45	180	Loss[W]	1647.0	1424.0	1291.0	885.0	803.0	697.0	563.0	513.0	34.0	53.0
				Loss[%]	2.4	2.1	1.9	1.3	1.2	1.0	0.8	0.7	N/A	N/A
				Efficiency[%]	96.9	95.5	92.7	97.0	95.4	92.6	95.2	91.8	N/A	N/A
2A0215	82	55	215	Loss[W]	1957.0	1727.0	1573.0	1042.0	933.0	817.0	646.0	583.0	39.0	85.0
				Loss[%]	2.4	2.1	1.9	1.3	1.1	1.0	0.8	0.7	N/A	N/A
				Efficiency[%]	96.9	95.4	92.5	97.0	95.4	92.6	95.2	92.0	N/A	N/A
2A0283	108	75	283	Loss[W]	2530.0	2204.0	2030.0	1313.0	1130.0	1058.0	835.0	759.0	41.0	86.0
				Loss[%]	2.3	2.0	1.9	1.2	1.0	1.0	0.8	0.7	N/A	N/A
				Efficiency[%]	97.0	95.5	92.7	97.1	95.7	92.6	95.2	91.8	N/A	N/A
2A0346	132	90	346	Loss[W]	2835.0	2475.0	2298.0	1479.0	1339.0	1191.0	902.0	849.0	54.0	144.0
				Loss[%]	2.1	1.9	1.7	1.1	1.0	0.9	0.7	0.6	N/A	N/A
				Efficiency[%]	96.9	95.5	92.5	96.9	95.2	92.2	94.6	90.6	N/A	N/A
2A0415	158	110	415	Loss[W]	3343.0	2904.0	2598.0	1721.0	1526.0	1388.0	1059.0	990.0	60.0	142.0
				Loss[%]	2.1	1.8	1.6	1.1	1.0	0.9	0.7	0.6	N/A	N/A
				Efficiency[%]	97.0	95.7	93.2	97.2	95.7	92.9	95.3	92.0	N/A	N/A

Three-Phase 400V Class

Model	Rated Apparent Output Power(kVA)	Rated Output Power(kW)	Rated Output Current(A)	Item	(Frequency(%), Torque Producing Current(%))									
					(90,100)	(50,100)	(25,100)	(90,50)	(50,50)	(25,50)	(50,25)	(25,25)	(0,0)	
4F0005	3.7	1.5	4.8	Loss[W]	72.7	66.2	63.4	54.1	48.6	48.5	44.1	43.5	10.8	N/A
				Loss[%]	2.0	1.8	1.7	1.5	1.3	1.3	1.2	1.2	N/A	N/A
				Efficiency[%]	97.4	96.1	93.2	96.5	94.6	90.2	91.9	85.9	N/A	N/A
4F0006	4.2	2.2	5.5	Loss[W]	89.5	79.4	76.2	65.5	63.5	60.5	54.2	53.1	11.8	14.3
				Loss[%]	2.1	1.9	1.8	1.6	1.5	1.4	1.3	1.3	N/A	N/A
				Efficiency[%]	97.1	95.9	92.7	96.6	94.4	89.9	92.9	86.6	N/A	N/A
4F0009	7	3.7	9.2	Loss[W]	135.7	127.0	119.2	91.4	93.9	89.7	76.2	76.5	11.1	15.5
				Loss[%]	1.9	1.8	1.7	1.3	1.3	1.3	1.1	1.1	N/A	N/A
				Efficiency[%]	97.5	95.8	92.1	97.2	94.7	89.4	93.6	86.2	N/A	N/A
4F0015	11.3	5.5	14.8	Loss[W]	205.9	180.8	170.4	164.0	136.0	116.0	109.1	110.6	13.4	19.4
				Loss[%]	1.8	1.6	1.5	1.5	1.2	1.0	1.0	1.0	N/A	N/A
				Efficiency[%]	97.5	96.1	92.1	96.7	95.0	90.5	93.9	86.2	N/A	N/A
4F0018	13.7	7.5	18	Loss[W]	315.7	240.0	227.5	174.6	148.2	178.9	142.3	124.6	13.3	18.5
				Loss[%]	2.3	1.8	1.7	1.3	1.1	1.3	1.0	0.9	N/A	N/A
				Efficiency[%]	97.0	96.1	92.8	96.7	95.0	87.8	91.7	83.6	N/A	N/A
4F0024	18.3	11	24	Loss[W]	377.5	338.4	296.6	212.4	190.4	172.0	141.9	133.3	14.5	21.8
				Loss[%]	2.1	1.8	1.6	1.2	1.0	0.9	0.8	0.7	N/A	N/A
				Efficiency[%]	97.4	96.1	94.1	97.1	95.7	92.8	94.8	90.7	N/A	N/A
4F0031	24	15	31	Loss[W]	482.8	402.8	357.2	256.0	218.1	203.5	164.9	158.2	11.8	22.2
				Loss[%]	2.0	1.7	1.5	1.1	0.9	0.8	0.7	0.7	N/A	N/A
				Efficiency[%]	97.5	96.6	94.8	97.6	96.5	94.2	96.1	93.2	N/A	N/A
4F0039	30	18.5	39	Loss[W]	607.8	492.8	457.5	321.6	275.3	245.5	207.3	197.5	14.2	23.8
				Loss[%]	2.0	1.6	1.5	1.1	0.9	0.8	0.7	0.7	N/A	N/A
				Efficiency[%]	97.4	96.5	94.4	97.4	96.3	93.9	95.6	92.1	N/A	N/A
4F0045	34	22	45	Loss[W]	698.3	629.7	556.3	417.4	356.3	315.8	263.9	233.9	19.0	25.1
				Loss[%]	2.1	1.9	1.6	1.2	1.0	0.9	0.8	0.7	N/A	N/A
				Efficiency[%]	97.4	96.2	94.1	97.2	96.0	93.6	95.6	92.8	N/A	N/A
4F0060	48	30	60	Loss[W]	862.0	791.0	721.0	516.0	460.0	413.0	348.0	318.0	21.0	28.0
				Loss[%]	1.8	1.6	1.5	1.1	1.0	0.9	0.7	0.7	N/A	N/A
				Efficiency[%]	97.5	96.3	94.4	97.5	96.2	94.1	96.0	93.5	N/A	N/A
4F0075	57	37	75	Loss[W]	948.0	899.0	793.0	557.0	491.0	445.0	367.0	324.0	24.0	39.0
				Loss[%]	1.7	1.6	1.4	1.0	0.9	0.8	0.6	0.6	N/A	N/A
				Efficiency[%]	97.7	96.4	94.5	97.6	96.4	94.1	95.9	93.3	N/A	N/A
4F0091	69	45	91	Loss[W]	1192.0	1104.0	1011.0	682.0	622.0	552.0	442.0	406.0	28.0	40.0
				Loss[%]	1.7	1.6	1.5	1.0	0.9	0.8	0.6	0.6	N/A	N/A
				Efficiency[%]	97.7	96.4	94.3	97.7	96.4	94.2	96.3	93.8	N/A	N/A
4F0112	85	55	112	Loss[W]	1526.0	1371.0	1280.0	827.0	729.0	661.0	505.0	481.0	44.0	60.0
				Loss[%]	1.8	1.6	1.5	1.0	0.9	0.8	0.6	0.6	N/A	N/A
				Efficiency[%]	97.5	96.1	93.1	97.2	95.6	92.1	93.5	86.1	N/A	N/A
4F0150	114	75	150	Loss[W]	1890.0	1790.0	1566.0	1049.0	901.0	834.0	653.0	607.0	58.0	108.0
				Loss[%]	1.7	1.6	1.4	0.9	0.8	0.7	0.6	0.5	N/A	N/A
				Efficiency[%]										