Manufacturer: Power Electronics

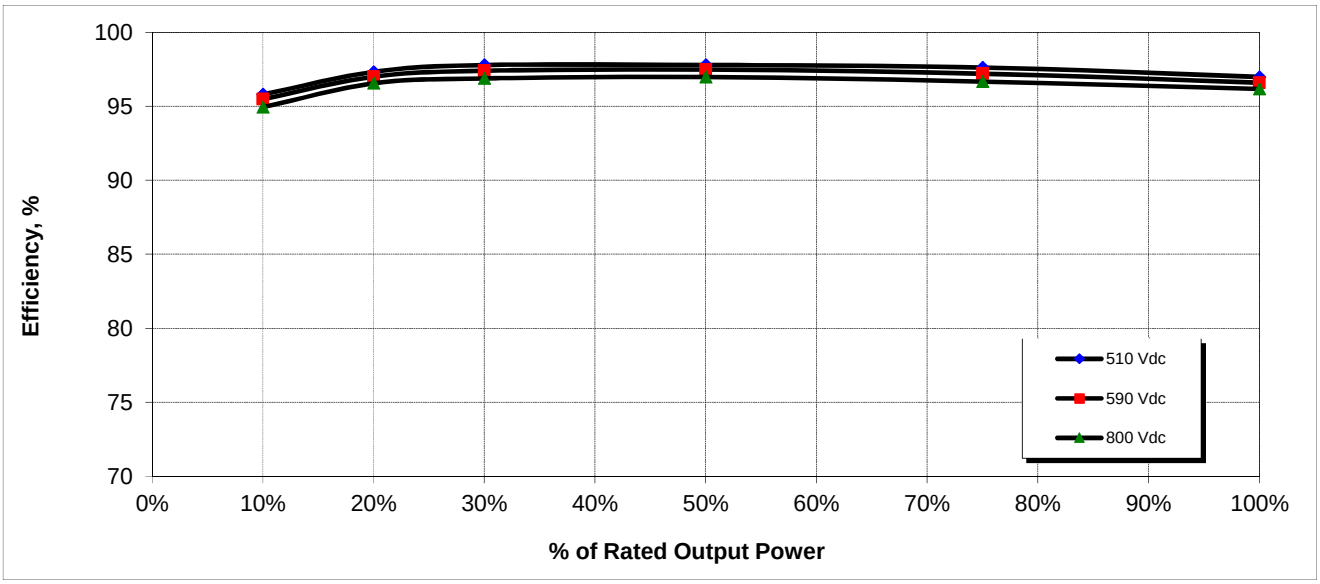
Model #: FS1003CU (360Vac)

Rated Maximum Continuous Output Power: 1100.0 kW Night Tare Loss: -317 W

Vmin: 510 Vdc Vnom: 590 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		110.00	220.00	330.00	550.00	825.00	1100.00	Wtd
Vmin	510	95.8	97.3	97.8	97.8	97.6	97.0	97.6
Vnom	590	95.5	97.0	97.4	97.5	97.2	96.6	97.2
Vmax	800	94.9	96.6	96.9	97.0	96.7	96.2	96.7

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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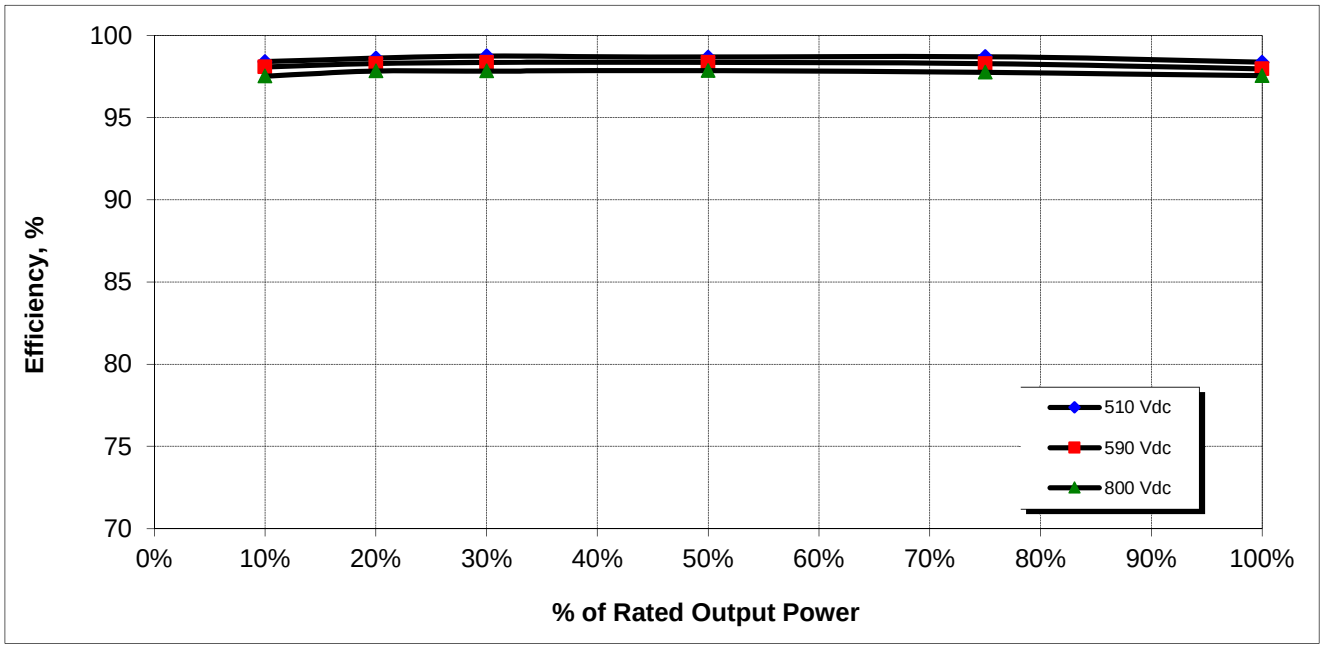
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		110.00	220.00	330.00	550.00	825.00	1100.00	Wtd
Vmin	510	98.4	98.6	98.7	98.7	98.7	98.4	98.7
Vnom	590	98.1	98.3	98.4	98.4	98.3	98.0	98.3
Vmax	800	97.5	97.8	97.8	97.9	97.8	97.5	97.8

Inverter Efficiency only = 98.0%



1100KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		110.00	220.00	330.00	550.00	825.00	1100.00	Wtd
Vmin	510	97.35	98.69	99.03	99.1	98.9	98.59	98.87
Vnom	590	97.35	98.69	99.03	99.1	98.9	98.59	98.87
Vmax	800	97.35	98.69	99.03	99.1	98.9	98.59	98.87

Inverter Efficiency Data

Minimum of 5 samples required

Specified		Sample #1			Sample #2			Sample #3			Sample #4			Sample #5		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	105730.7	513.7	98.4	105622.7	513.7	98.4	106031.3	513.8	98.4	105670.7	513.7	98.4	105680.0	513.8	98.4
20%	Vmin	225433.7	512.7	98.6	225095.7	512.7	98.6	225495.7	512.7	98.6	225474.0	512.8	98.6	225296.0	512.7	98.6
30%	Vmin	341655.3	512.6	98.7	342488.0	512.5	98.7	342783.0	512.6	98.7	341997.0	512.6	98.8	342471.7	512.6	98.7
50%	Vmin	567668.7	513.4	98.7	567652.3	513.4	98.7	567250.3	513.5	98.7	566867.3	513.4	98.7	566892.3	513.4	98.7
75%	Vmin	851174.3	513.0	98.7	852690.0	513.1	98.7	851264.7	512.9	98.7	852767.3	513.0	98.7	849950.7	513.0	98.7
100%	Vmin	1125993.3	512.4	98.4	1124670.0	512.4	98.4	1128503.3	512.3	98.4	1126740.0	512.4	98.4	1124673.3	512.4	98.4
10%	Vnom	105273.7	592.3	98.0	106043.0	592.3	98.1	105451.7	592.3	98.1	105634.3	592.3	98.1	105413.0	592.3	98.1
20%	Vnom	225048.0	593.3	98.3	224570.0	593.4	98.3	224068.0	593.3	98.3	225098.3	593.3	98.3	225140.7	593.3	98.3
30%	Vnom	340389.7	592.4	98.4	339629.3	592.3	98.4	341163.3	592.3	98.4	341150.3	592.3	98.4	339703.7	592.2	98.4
50%	Vnom	569960.3	592.2	98.4	572215.3	592.2	98.4	571231.0	592.2	98.4	569966.7	592.2	98.4	569788.0	592.2	98.4
75%	Vnom	850026.0	592.8	98.3	845471.3	592.8	98.3	849280.7	592.8	98.3	845932.0	592.7	98.3	850097.0	592.8	98.3
100%	Vnom	1130063.3	592.3	98.0	1134183.3	592.4	98.0	1134450.0	592.3	98.0	1129760.0	592.3	98.0	1132493.3	592.4	98.0
10%	Vmax	105547.7	799.5	97.6	105305.0	799.4	97.5	105400.7	799.5	97.5	105234.3	799.5	97.5	105819.3	799.4	97.5
20%	Vmax	226101.7	799.7	97.8	226120.7	799.7	97.8	225199.7	799.7	97.8	225345.7	799.7	97.8	226631.0	799.7	97.8
30%	Vmax	336771.0	799.7	97.8	338986.3	799.7	97.8	338283.7	799.8	97.8	336806.3	799.7	97.8	339975.7	799.7	97.9
50%	Vmax	570513.3	799.8	97.9	566741.0	799.9	97.9	565041.3	799.8	97.9	568872.3	799.8	97.9	567769.0	799.9	97.9
75%	Vmax	839264.3	799.7	97.7	844801.7	799.6	97.7	837155.7	799.6	97.8	843197.0	799.7	97.8	842998.0	799.5	97.8
100%	Vmax	1123696.7	798.4	97.5	1131763.3	798.2	97.5	1125000.0	798.2	97.6	1122110.0	798.4	97.6	1130390.0	798.3	97.5

Specified		Sample #6			Sample #7			Sample #8			Sample #9			Sample #10		
Output Power	Input Voltage	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency	Output Power	Input Voltage	Efficiency
(% of rated)	(Vdc)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	105532.3	513.8	98.4	105752.3	513.7	98.4									
20%	Vmin	225230.0	512.7	98.6	225520.3	512.7	98.6									
30%	Vmin	342897.7	512.5	98.8	342652.7	512.6	98.8									
50%	Vmin	567255.0	513.4	98.7	567760.7	513.4	98.7									
75%	Vmin	853402.0	512.9	98.7	851502.7	513.0	98.7									
100%	Vmin	1128336.7	512.4	98.4	1126596.7	512.4	98.4									
10%	Vnom	105738.3	592.3	98.1	105859.3	592.3	98.1									
20%	Vnom	224409.0	593.3	98.3	224598.7	593.3	98.3									
30%	Vnom	340677.0	592.3	98.4	341347.7	592.3	98.4									
50%	Vnom	571744.0	592.1	98.4	571920.0	592.1	98.4									
75%	Vnom	846531.7	592.8	98.3	849660.7	592.8	98.3									
100%	Vnom	1134876.7	592.3	98.0	1131133.3	592.2	98.0									
10%	Vmax	104935.7	799.5	97.6	105652.7	799.5	97.5									
20%	Vmax	226356.3	799.8	97.9	225380.7	799.7	97.9									
30%	Vmax	337790.7	799.8	97.8	337617.0	799.6	97.8									
50%	Vmax	564724.3	799.8	97.9	566665.3	799.8	97.9									
75%	Vmax	836938.3	799.7	97.8	847206.0	799.5	97.8									
100%	Vmax	1127410.0	798.2	97.6	1121123.3	798.4	97.6									