Manufacturer: Power Electronics

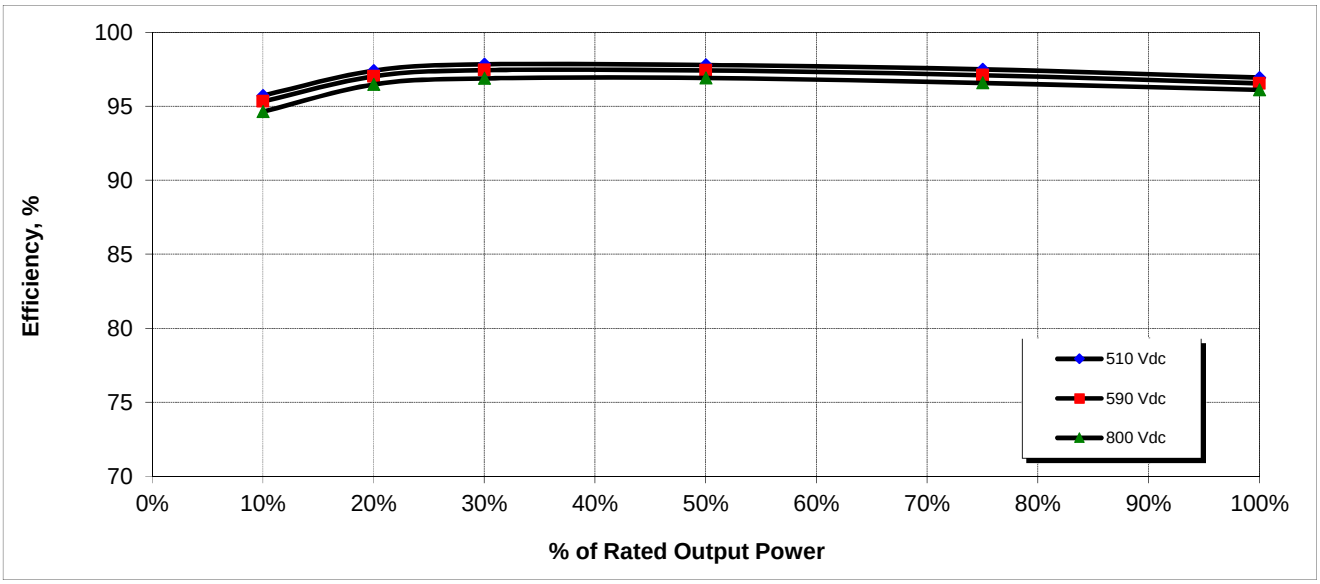
Model #: FS1110CU (360Vac)

Rated Maximum Continuous Output Power: 1250.0 kW Night Tare Loss: -340 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		125.00	250.00	375.00	625.00	937.50	1250.00	Wtd
Vmin	510	95.7	97.4	97.8	97.8	97.5	96.9	97.5
Vnom	590	95.3	97.0	97.4	97.4	97.1	96.6	97.1
Vmax	800	94.6	96.5	96.9	96.9	96.6	96.1	96.6

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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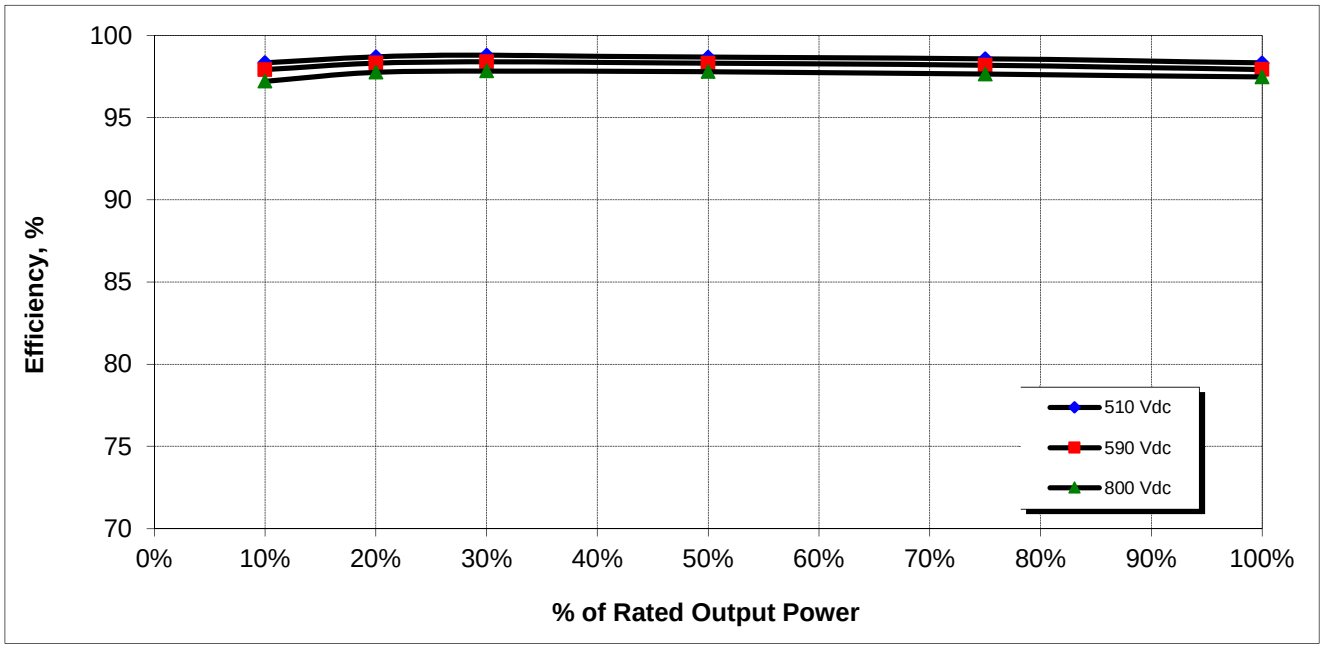
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		125.00	250.00	375.00	625.00	937.50	1250.00	Wtd
Vmin	510	98.3	98.7	98.8	98.7	98.6	98.3	98.6
Vnom	590	97.9	98.3	98.4	98.3	98.2	97.9	98.2
Vmax	800	97.2	97.8	97.8	97.8	97.7	97.5	97.7

Inverter Efficiency only = 98.0%



1250KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		125.00	250.00	375.00	625.00	937.50	1250.00	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	123313.3	512.1	98.4	123316.0	512.1	98.3	123245.0	512.1	98.3	123570.3	512.1	98.3	123097.0	512.1	98.3
20%	Vmin	258484.0	512.9	98.7	258506.0	512.9	98.7	258547.3	512.9	98.7	258569.0	512.9	98.7	258421.0	512.9	98.7
30%	Vmin	390250.0	511.7	98.8	390401.7	511.7	98.8	390231.7	511.7	98.8	390298.7	511.7	98.8	390457.7	511.7	98.8
50%	Vmin	652020.0	512.1	98.7	653354.7	512.1	98.7	653872.7	512.1	98.7	651462.0	512.2	98.7	652432.3	512.1	98.7
75%	Vmin	964770.3	512.6	98.6	965235.7	512.6	98.6	963524.7	512.6	98.6	967345.0	512.6	98.6	964570.7	512.6	98.6
100%	Vmin	1270346.7	511.9	98.3	1273193.3	511.7	98.3	1271556.7	511.9	98.3	1274283.3	511.7	98.3	1270786.7	511.8	98.3
10%	Vnom	122577.0	592.7	97.9	122747.0	592.7	98.0	122761.3	592.7	97.9	122593.7	592.7	97.9	122577.0	592.7	97.9
20%	Vnom	257184.0	592.5	98.3	257443.7	592.4	98.3	257338.7	592.5	98.3	257438.0	592.5	98.3	257321.0	592.5	98.3
30%	Vnom	388882.3	592.3	98.4	388721.3	592.3	98.4	388217.3	592.3	98.4	388233.3	592.3	98.4	388248.7	592.3	98.4
50%	Vnom	649958.7	592.9	98.3	646063.7	592.9	98.3	649800.7	592.9	98.3	648454.0	593.0	98.3	647306.7	592.9	98.3
75%	Vnom	963138.7	592.4	98.2	957654.7	592.5	98.2	963282.7	592.4	98.2	957101.7	592.5	98.2	963903.0	592.4	98.2
100%	Vnom	1268963.3	591.6	97.9	1267896.7	591.8	97.9	1271103.3	591.6	97.9	1265046.7	591.7	97.9	1272936.7	591.7	97.9
10%	Vmax	122264.0	799.9	97.1	122001.7	799.9	97.2	122188.3	799.9	97.2	122115.3	800.0	97.3	122224.0	800.0	97.2
20%	Vmax	256225.7	799.9	97.7	256117.3	799.8	97.8	256109.7	799.8	97.8	256150.7	799.9	97.8	255889.3	799.8	97.8
30%	Vmax	385855.7	799.7	97.8	387134.7	799.8	97.8	387272.3	799.8	97.8	386493.7	799.8	97.8	385707.7	799.7	97.8
50%	Vmax	651050.7	799.5	97.8	644861.0	799.6	97.8	650503.3	799.4	97.8	645486.3	799.6	97.8	647867.3	799.5	97.8
75%	Vmax	953410.3	799.2	97.7	964076.3	799.0	97.6	954114.0	799.2	97.6	962879.0	799.0	97.6	955049.3	799.0	97.7
100%	Vmax	1269936.7	798.8	97.5	1279040.0	798.9	97.5	1276256.7	798.6	97.5	1269453.3	799.0	97.5	1282203.3	798.6	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	123213.7	512.1	98.4	123055.3	512.1	98.4									
20%	Vmin	258462.0	512.9	98.7	258432.7	512.9	98.7									
30%	Vmin	390351.3	511.7	98.8	390507.0	511.7	98.8									
50%	Vmin	653641.3	512.1	98.7	651910.7	512.2	98.7									
75%	Vmin	966374.0	512.5	98.6	964885.3	512.6	98.6									
100%	Vmin	1274526.7	511.8	98.3	1271670.0	511.8	98.3									
10%	Vnom	122585.7	592.7	97.9	122668.3	592.7	97.9									
20%	Vnom	257298.7	592.5	98.3	257281.0	592.4	98.3									
30%	Vnom	388803.3	592.3	98.4	389033.7	592.3	98.4									
50%	Vnom	650664.0	592.8	98.3	646843.3	592.9	98.3									
75%	Vnom	958290.3	592.5	98.2	963513.7	592.4	98.2									
100%	Vnom	1266196.7	591.7	97.9	1271413.3	591.7	97.9									
10%	Vmax	122114.7	800.0	97.3	121933.7	800.0	97.2									
20%	Vmax	255870.7	799.9	97.7	255764.0	799.9	97.7									
30%	Vmax	385370.7	799.7	97.8	384803.0	799.7	97.8									
50%	Vmax	649761.3	799.6	97.8	645278.7	799.5	97.8									
75%	Vmax	962346.0	799.1	97.6	956212.3	799.0	97.7									
100%	Vmax	1271016.7	798.8	97.5	1277416.7	798.9	97.5									