Manufacturer: Power Electronics

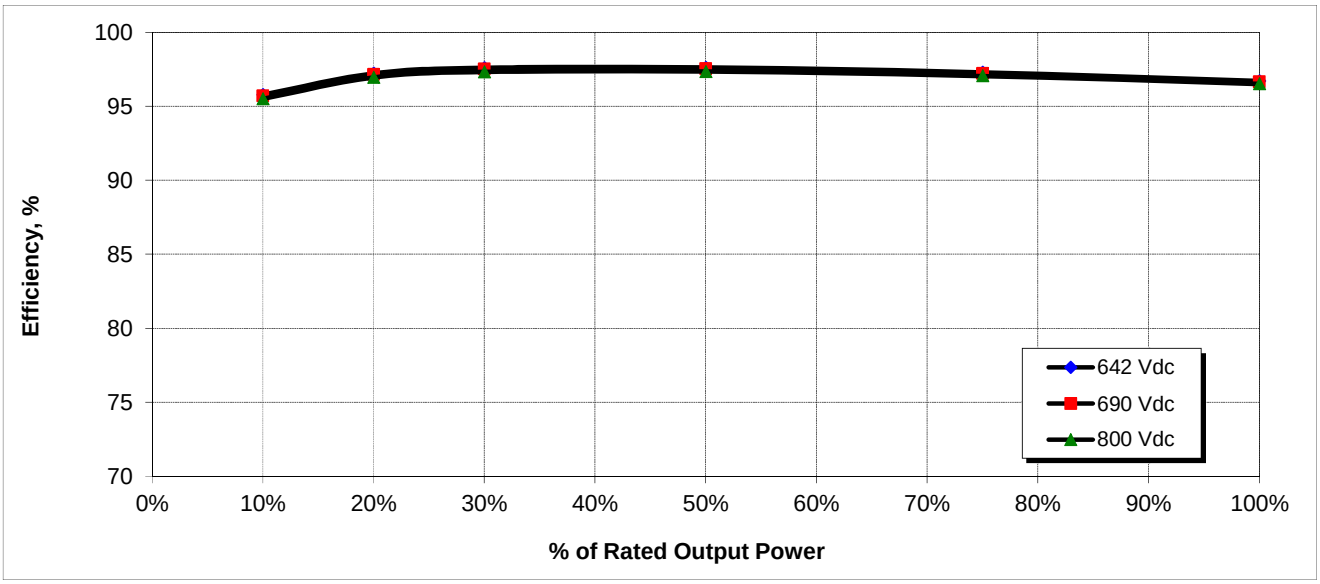
Model #: FS1980CU (440Vac)

Rated Maximum Continuous Output Power: 2200.0 kW Night Tare Loss: -396 W

Vmin: 642 Vdc Vnom: 690 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		220.00	440.00	660.00	1100.00	1650.00	2200.00	Wtd
Vmin	642	95.8	97.2	97.6	97.6	97.3	96.7	97.3
Vnom	690	95.7	97.1	97.5	97.5	97.2	96.7	97.2
Vmax	800	95.5	97.0	97.3	97.4	97.1	96.5	97.1

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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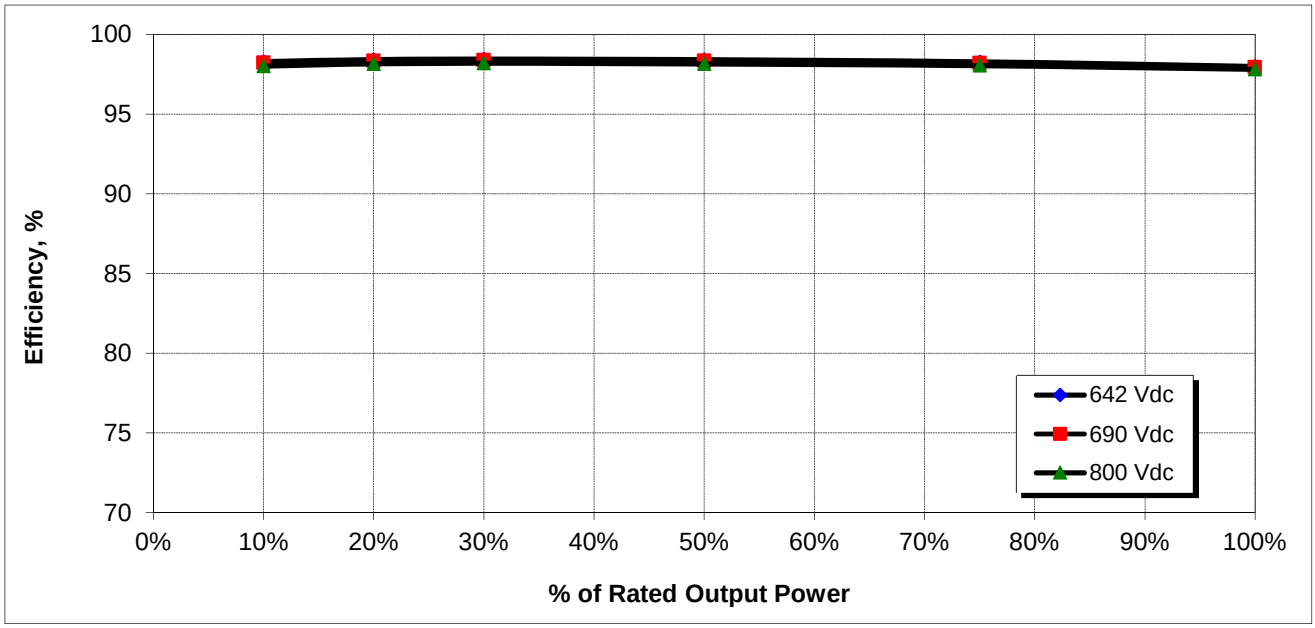
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		220.00	440.00	660.00	1100.00	1650.00	2200.00	Wtd
Vmin	642	98.3	98.4	98.5	98.4	98.3	98.0	98.3
Vnom	690	98.2	98.3	98.4	98.3	98.2	97.9	98.2
Vmax	800	98.0	98.1	98.2	98.1	98.0	97.8	98.1

Inverter Efficiency only = 98.0%



2200KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		220.00	440.00	660.00	1100.00	1650.00	2200.00	Wtd
Vmin	642	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vnom	690	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vmax	800	97.45	98.79	99.13	99.20	99.00	98.69	98.97

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	211918.7	643.1	98.3	211905.3	643.1	98.3	213005.3	643.1	98.3	211767.0	643.1	98.3	212789.0	643.1	98.3
20%	Vmin	442760.0	642.9	98.4	443483.3	642.8	98.4	444383.7	642.8	98.4	441737.3	642.8	98.4	442630.0	642.9	98.4
30%	Vmin	666573.7	642.5	98.5	669831.0	642.4	98.5	669616.7	642.4	98.5	669521.7	642.4	98.5	667018.3	642.4	98.5
50%	Vmin	1128936.7	642.1	98.4	1128773.3	642.1	98.4	1131426.7	642.1	98.4	1126163.3	642.2	98.4	1127626.7	642.2	98.4
75%	Vmin	1673246.7	642.0	98.3	1676813.3	642.0	98.3	1677983.3	642.0	98.3	1680720.0	641.9	98.3	1666903.3	642.1	98.3
100%	Vmin	2221216.7	642.7	98.0	2218463.3	642.8	98.0	2218986.7	642.7	98.0	2217196.7	642.8	98.0	2220650.0	642.7	98.0
10%	Vnom	212567.3	691.5	98.2	212323.3	691.5	98.2	212456.7	691.5	98.2	212513.7	691.4	98.2	211907.7	691.5	98.2
20%	Vnom	443033.3	691.2	98.3	443552.3	691.2	98.3	442367.0	691.2	98.3	441479.7	691.3	98.3	443781.7	691.3	98.3
30%	Vnom	670851.0	690.7	98.4	670549.7	690.7	98.4	667110.7	690.7	98.4	669221.3	690.7	98.4	669727.0	690.7	98.4
50%	Vnom	1129690.0	690.6	98.3	1126253.3	690.7	98.3	1120900.0	690.6	98.3	1119936.7	690.7	98.3	1123290.0	690.6	98.3
75%	Vnom	1671146.7	690.6	98.2	1675406.7	690.5	98.2	1673156.7	690.6	98.2	1673346.7	690.5	98.2	1675293.3	690.5	98.2
100%	Vnom	2221756.7	690.2	97.9	2213876.7	690.3	97.9	2217253.3	690.3	97.9	2218263.3	690.2	97.9	2216956.7	690.3	97.9
10%	Vmax	212091.0	801.6	98.0	211859.7	801.6	98.0	211811.3	801.7	98.0	212135.0	801.7	98.0	211760.7	801.7	98.0
20%	Vmax	439028.0	801.3	98.1	440031.0	801.3	98.1	441872.7	801.3	98.1	443558.3	801.3	98.1	443511.3	801.3	98.1
30%	Vmax	668118.3	801.0	98.2	668116.7	801.0	98.2	669560.7	801.0	98.2	668768.7	800.9	98.2	666137.7	801.1	98.2
50%	Vmax	1116456.7	801.0	98.1	1125743.3	801.0	98.1	1122433.3	801.0	98.1	1121156.7	801.0	98.1	1125223.3	800.9	98.1
75%	Vmax	1674916.7	800.9	98.0	1672013.3	801.0	98.0	1667553.3	801.0	98.0	1674330.0	800.9	98.0	1667406.7	801.1	98.0
100%	Vmax	2216543.3	800.8	97.8	2221030.0	800.8	97.8	2218926.7	800.8	97.8	2213226.7	800.8	97.8	2214830.0	800.9	97.8

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	211283.3	643.1	98.3	211883.0	643.1	98.3									
20%	Vmin	443530.3	642.9	98.4	442545.3	642.8	98.4									
30%	Vmin	668465.3	642.4	98.5	670215.3	642.4	98.5									
50%	Vmin	1129773.3	642.1	98.4	1125053.3	642.2	98.4									
75%	Vmin	1679770.0	642.0	98.3	1674440.0	642.0	98.3									
100%	Vmin	2221280.0	642.7	98.0	2219953.3	642.7	98.0									
10%	Vnom	212621.3	691.4	98.2	212231.7	691.5	98.2									
20%	Vnom	442480.3	691.3	98.3	441928.3	691.3	98.3									
30%	Vnom	670228.3	690.8	98.4	669152.3	690.8	98.4									
50%	Vnom	1125313.3	690.6	98.3	1122040.0	690.6	98.3									
75%	Vnom	1678883.3	690.5	98.2	1675103.3	690.5	98.2									
100%	Vnom	2219380.0	690.2	97.9	2221320.0	690.2	97.9									
10%	Vmax	212575.0	801.6	98.0	211528.7	801.7	98.0									
20%	Vmax	442488.0	801.4	98.1	443988.3	801.4	98.1									
30%	Vmax	668508.7	801.0	98.2	667192.3	801.0	98.2									
50%	Vmax	1118010.0	801.0	98.1	1123023.3	801.0	98.1									
75%	Vmax	1670920.0	800.9	98.0	1670106.7	800.9	98.1									
100%	Vmax	2214503.3	800.8	97.8	2215866.7	800.7	97.8									