Manufacturer: Power Electronics

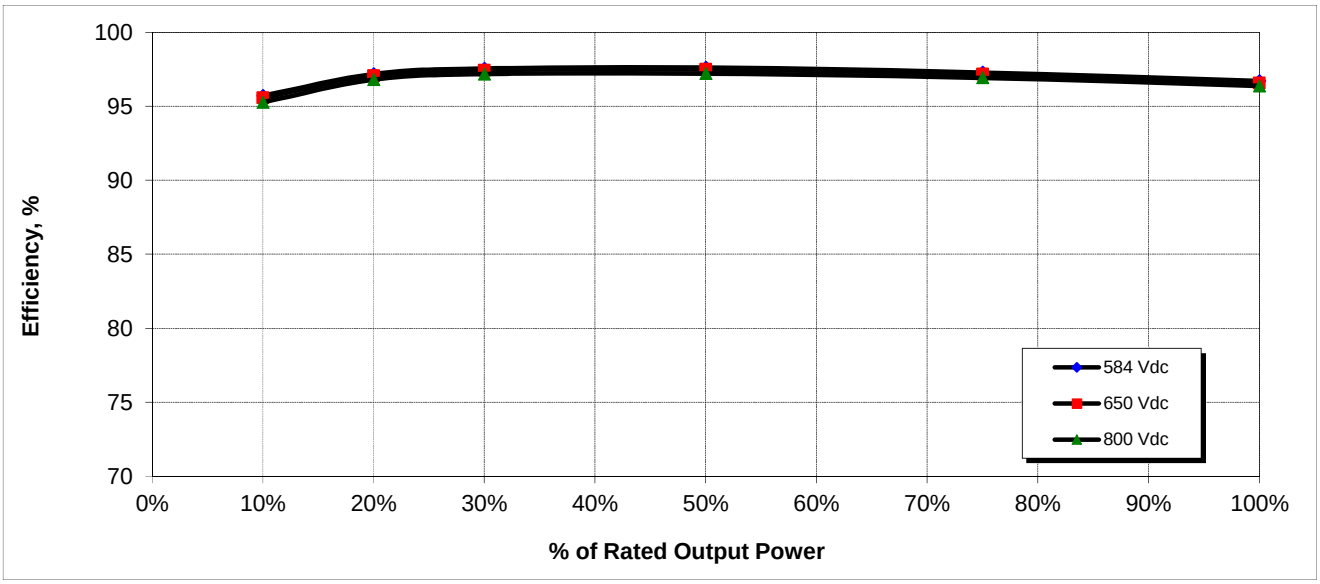
Model #: FS1801CU (400Vac)

Rated Maximum Continuous Output Power: 1800.0 kW Night Tare Loss: -356 W

Vmin: 584 Vdc Vnom: 650 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		180.00	360.00	540.00	900.00	1350.00	1800.00	Wtd
Vmin	584	95.7	97.2	97.6	97.6	97.3	96.7	97.3
Vnom	650	95.6	97.1	97.4	97.5	97.2	96.6	97.2
Vmax	800	95.3	96.8	97.2	97.2	96.9	96.4	96.9

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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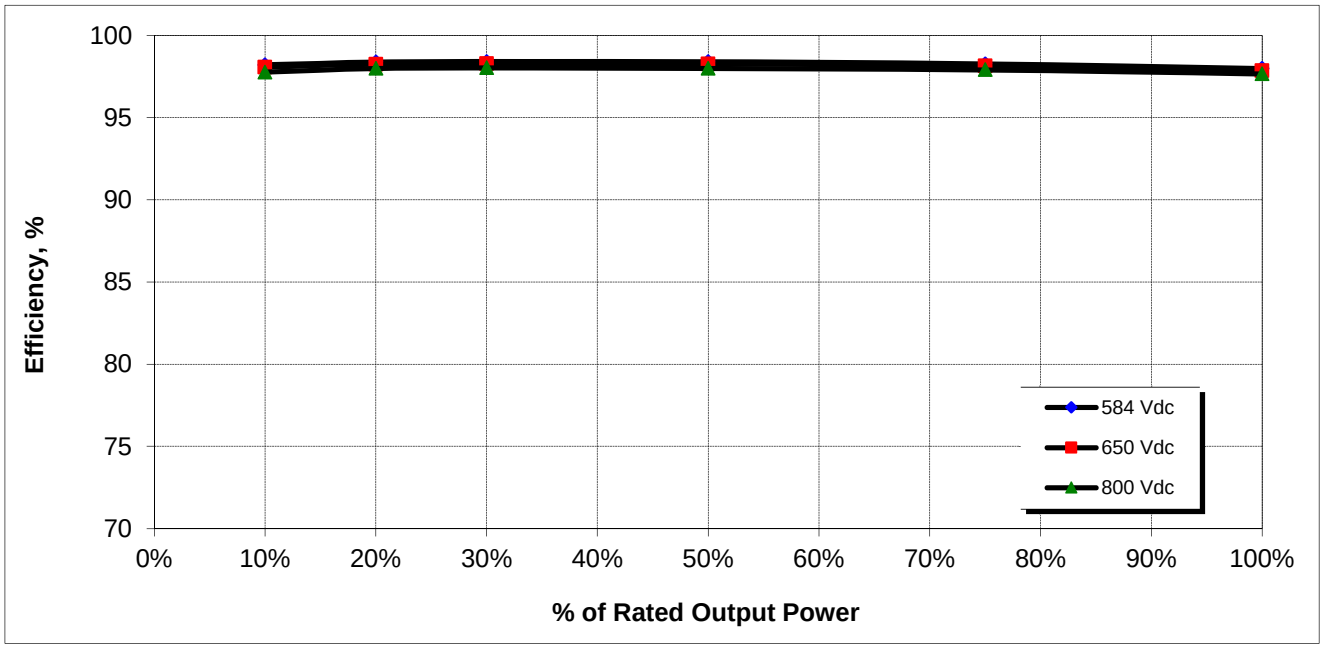
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		180.00	360.00	540.00	900.00	1350.00	1800.00	Wtd
Vmin	584	98.2	98.4	98.4	98.4	98.3	98.0	98.3
Vnom	650	98.1	98.3	98.3	98.3	98.2	97.9	98.2
Vmax	800	97.8	98.0	98.0	98.0	97.9	97.7	97.9

Inverter Efficiency only = 98.0%



1800KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		180.00	360.00	540.00	900.00	1350.00	1800.00	Wtd
Vmin	584	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vnom	650	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	174978.7	585.7	98.2	174258.3	585.7	98.2	174550.7	585.7	98.2	174119.3	585.7	98.2	174365.0	585.7	98.2
20%	Vmin	363154.3	584.5	98.4	363420.7	584.6	98.4	363031.7	584.5	98.4	363248.0	584.6	98.4	362268.3	584.6	98.4
30%	Vmin	547806.0	585.6	98.4	545771.0	585.6	98.4	547129.3	585.6	98.4	546121.0	585.5	98.4	547587.7	585.5	98.4
50%	Vmin	904718.3	585.5	98.4	905949.3	585.5	98.4	903490.3	585.5	98.4	905140.0	585.5	98.4	904331.7	585.5	98.4
75%	Vmin	1362906.7	584.8	98.3	1358616.7	584.8	98.3	1360803.3	584.8	98.3	1359523.3	584.8	98.3	1362340.0	584.8	98.3
100%	Vmin	1799360.0	585.6	98.0	1797356.7	585.7	98.0	1795850.0	585.6	98.0	1801120.0	585.5	98.0	1799000.0	585.6	98.0
10%	Vnom	173902.7	652.3	98.1	174084.7	652.2	98.1	173889.7	652.3	98.1	173986.0	652.3	98.1	174569.7	652.3	98.1
20%	Vnom	362123.0	651.4	98.3	362478.7	651.5	98.3	361952.3	651.5	98.3	361752.7	651.4	98.3	363029.7	651.4	98.3
30%	Vnom	543473.7	652.5	98.3	544378.3	652.5	98.3	544333.3	652.4	98.3	544372.0	652.5	98.3	545402.3	652.5	98.3
50%	Vnom	907108.7	651.2	98.3	902708.3	651.3	98.3	907301.0	651.3	98.3	904885.7	651.3	98.3	907672.0	651.3	98.3
75%	Vnom	1361513.3	651.8	98.2	1361913.3	651.8	98.2	1359216.7	651.9	98.2	1359730.0	651.9	98.2	1361030.0	651.9	98.2
100%	Vnom	1799023.3	651.5	97.9	1799910.0	651.5	97.9	1801653.3	651.5	97.9	1799486.7	651.5	97.9	1805373.3	651.5	97.9
10%	Vmax	174009.3	801.0	97.8	174254.7	801.1	97.8	174071.0	801.1	97.7	174097.3	801.1	97.8	174052.7	801.0	97.8
20%	Vmax	363035.0	801.3	98.0	362257.0	801.3	98.0	362573.0	801.3	98.0	363323.3	801.3	98.0	361879.0	801.3	98.0
30%	Vmax	545466.7	801.5	98.0	545308.0	801.5	98.0	544652.0	801.4	98.0	545127.0	801.4	98.0	544743.7	801.5	98.0
50%	Vmax	902353.0	801.2	98.0	905602.3	801.2	98.0	903748.0	801.3	98.0	902237.7	801.3	98.0	906413.0	801.2	98.0
75%	Vmax	1354896.7	800.6	97.9	1354030.0	800.6	97.9	1354986.7	800.6	97.9	1362006.7	800.5	97.9	1358270.0	800.5	97.9
100%	Vmax	1809533.3	801.4	97.7	1807146.7	801.5	97.7	1807483.3	801.5	97.7	1807550.0	801.5	97.7	1806510.0	801.5	97.7

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	173979.0	585.8	98.2	174803.3	585.7	98.2									
20%	Vmin	361613.0	584.5	98.4	362904.3	584.5	98.4									
30%	Vmin	547407.0	585.5	98.4	545599.3	585.5	98.4									
50%	Vmin	905127.7	585.5	98.4	907951.0	585.5	98.4									
75%	Vmin	1362726.7	584.8	98.3	1361926.7	584.9	98.3									
100%	Vmin	1796090.0	585.6	98.0	1802043.3	585.5	98.0									
10%	Vnom	173939.3	652.3	98.1	174098.7	652.3	98.1									
20%	Vnom	362909.3	651.4	98.3	361905.0	651.4	98.3									
30%	Vnom	545901.7	652.4	98.3	545477.7	652.4	98.3									
50%	Vnom	906795.0	651.3	98.3	906255.0	651.3	98.3									
75%	Vnom	1361380.0	651.8	98.1	1362120.0	651.9	98.2									
100%	Vnom	1803216.7	651.5	97.9	1801446.7	651.6	97.9									
10%	Vmax	173895.3	801.0	97.8	174178.7	801.0	97.8									
20%	Vmax	362027.7	801.3	98.0	361864.7	801.3	98.0									
30%	Vmax	545381.0	801.5	98.0	543097.3	801.5	98.0									
50%	Vmax	906969.3	801.2	98.0	903935.3	801.3	98.0									
75%	Vmax	1355993.3	800.6	97.9	1356536.7	800.6	97.9									
100%	Vmax	1809006.7	801.5	97.7	1807610.0	801.5	97.7									