Manufacturer: Power Electronics

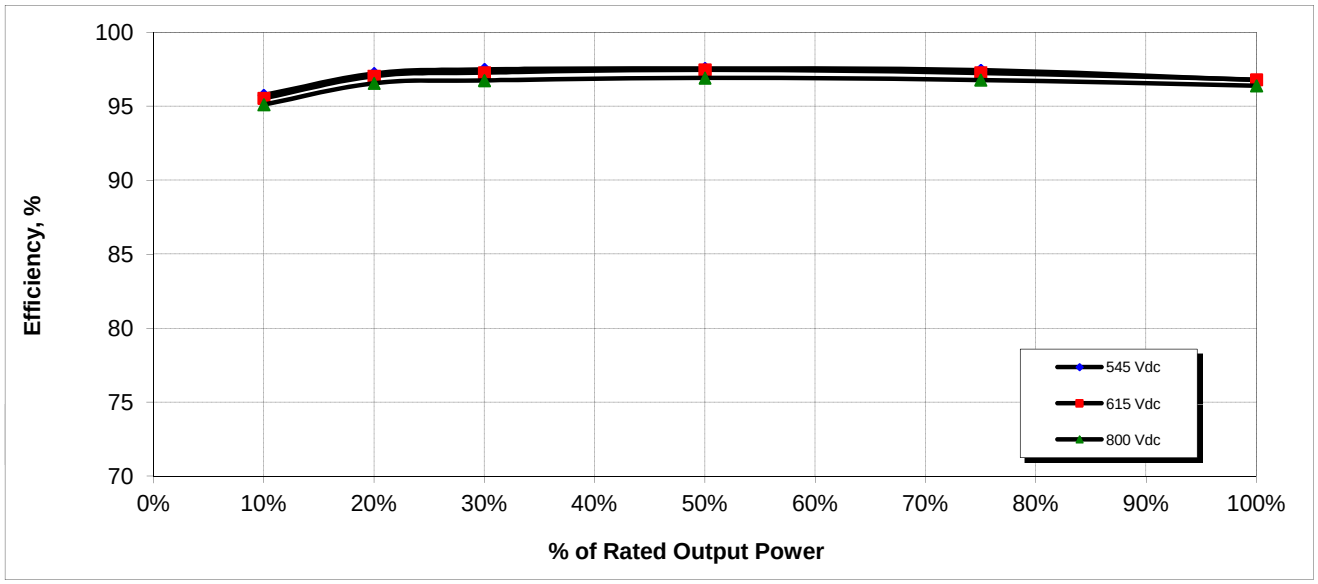
Model #: FS970CU, FS970PU

Rated Maximum Continuous Output Power: 970.00 kW Night Tare Loss: -491 W

Vmin: 545 Vdc Vnom: 615 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		97.00	194.00	291.00	485.00	727.50	970.00	Wtd
Vmin	545	95.75	97.21	97.49	97.56	97.44	96.77	97.36
Vnom	615	95.54	97.03	97.27	97.46	97.26	96.79	97.20
Vmax	800	95.11	96.55	96.74	96.91	96.78	96.38	96.70

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



Manufacturer: Power Electronics

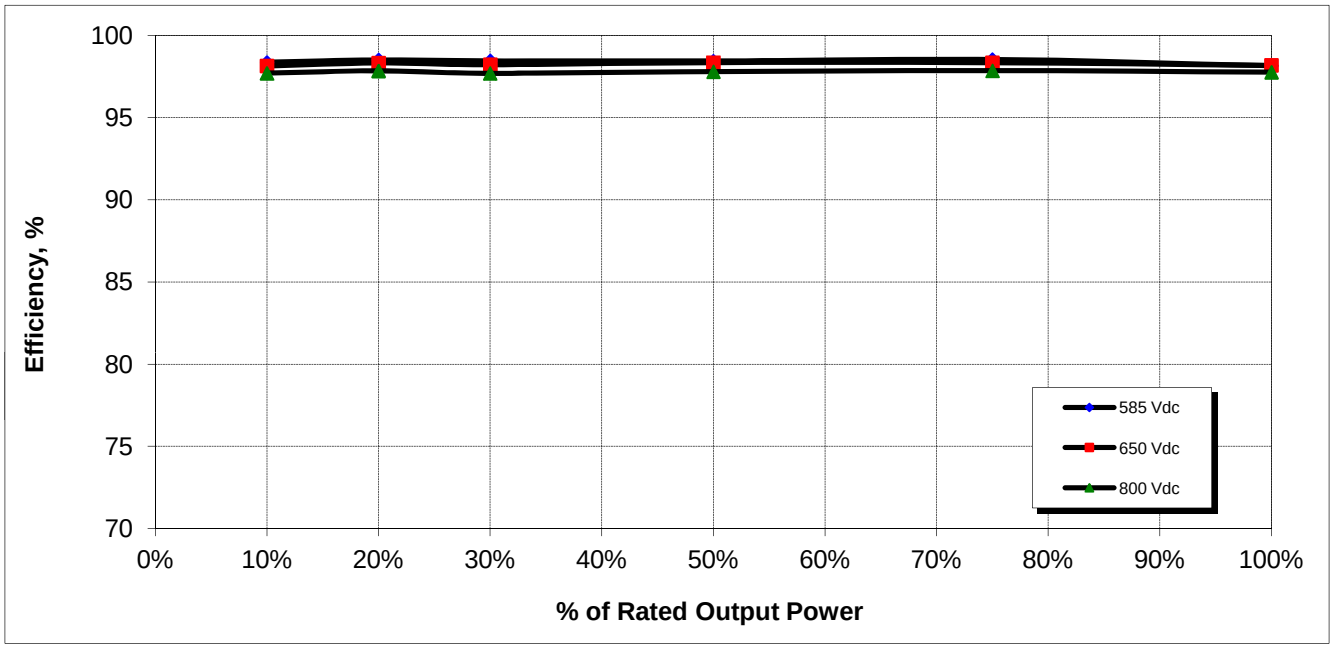
Model #: FS970CU, FS970PU

Rated Maximum Continuous Output Power: 970.0 kW Night Tare Loss: -491 W

Vmin: 585 Vdc Vnom: 650 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		97.00	194.00	291.00	485.00	727.50	970.00	Wtd
Vmin	585	98.36	98.50	98.45	98.44	98.53	98.15	98.47
Vnom	650	98.14	98.32	98.22	98.35	98.34	98.18	98.31
Vmax	800	97.70	97.84	97.69	97.79	97.85	97.76	97.81

Inverter Efficiency only = 98.0%



1.0MVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		97.00	194.00	291.00	485.00	727.50	970.00	Wtd
Vmin	545	97.35	98.69	99.03	99.1	98.9	98.59	98.87
Vnom	615	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	96449.130	541.390	98.390	96421.570	541.400	98.390	96424.530	541.430	98.390	96429.430	541.410	98.170	96389.500	541.410	98.390
20%	Vmin	194238.000	541.030	98.500	194175.000	541.030	98.500	194255.000	541.010	98.500	194253.000	541.030	98.500	194253.670	541.050	98.500
30%	Vmin	292039.330	541.150	98.440	292117.000	541.180	98.440	292136.000	541.180	98.440	292211.670	541.210	98.450	292211.670	541.210	98.450
50%	Vmin	485453.670	540.640	98.500	485505.000	540.600	98.500	485526.330	540.540	98.500	485644.000	540.570	98.500	485820.330	540.580	98.500
75%	Vmin	727769.000	540.370	98.520	726980.330	540.370	98.530	728148.330	540.330	98.530	727999.670	540.330	98.530	727418.330	540.340	98.530
100%	Vmin	969942.330	540.390	98.310	970179.000	540.360	98.310	969747.330	540.360	98.310	970384.670	540.360	98.320	970170.330	540.360	98.320
10%	Vnom	96522.670	605.280	98.140	96523.970	605.300	98.140	96511.700	605.280	98.130	96505.830	605.290	98.140	96472.130	605.290	98.150
20%	Vnom	194240.000	606.990	98.330	194230.330	606.930	98.330	194214.330	606.890	98.320	194107.000	606.870	98.320	194243.670	606.870	98.320
30%	Vnom	291444.670	606.990	98.250	291881.000	606.930	98.250	291585.330	606.940	98.250	291505.000	606.970	98.250	291774.000	607.000	98.070
50%	Vnom	486177.000	606.350	98.350	486051.670	606.360	98.350	486108.000	606.360	98.350	486375.670	606.370	98.330	486320.670	606.360	98.350
75%	Vnom	727160.000	606.070	98.340	727149.330	606.070	98.340	727969.000	606.040	98.340	727916.670	606.070	98.340	728090.000	606.050	98.330
100%	Vnom	969876.670	606.210	98.170	969650.330	606.270	98.180	970061.000	606.300	98.180	969776.000	606.290	98.170	970100.670	606.270	98.180
10%	Vmax	96051.370	800.620	97.690	96077.530	800.620	97.690	96076.300	800.660	97.680	96045.000	800.630	97.690	96026.070	800.710	97.680
20%	Vmax	195008.330	800.440	97.840	194954.330	800.470	97.830	194968.330	800.450	97.840	194969.000	800.380	97.840	194907.000	800.400	97.840
30%	Vmax	291287.330	800.510	97.660	291347.000	800.560	97.700	291090.670	800.530	97.690	291052.670	800.550	97.690	291325.000	800.530	97.690
50%	Vmax	487175.330	799.910	97.800	486663.670	799.920	97.800	486586.330	799.930	97.800	486525.330	799.960	97.790	486733.330	799.950	97.790
75%	Vmax	728263.330	800.750	97.850	728017.000	800.780	97.820	727571.330	800.760	97.850	728235.000	800.800	97.860	728713.330	800.790	97.860
100%	Vmax	970330.670	800.070	97.760	970070.330	800.070	97.740	970147.000	800.060	97.750	970463.330	800.090	97.750	969788.000	800.040	97.750

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	96389.500	541.410	98.390	96389.000	541.420	98.380									
20%	Vmin	194280.000	541.030	98.510	194202.000	541.090	98.510									
30%	Vmin	292040.000	541.220	98.450	291945.000	541.170	98.450									
50%	Vmin	485899.670	540.590	98.320	485641.000	540.640	98.270									
75%	Vmin	728311.000	540.330	98.530	728314.000	540.350	98.530									
100%	Vmin	969770.330	540.380	98.320	970099.000	540.380	98.310									
10%	Vnom	96489.030	605.310	98.150	96407.500	605.360	98.150									
20%	Vnom	194142.000	606.910	98.310	193979.000	606.900	98.330									
30%	Vnom	291934.670	606.980	98.250	292193.000	607.040	98.240									
50%	Vnom	487185.000	606.380	98.350	486804.000	606.380	98.350									
75%	Vnom	728261.000	606.060	98.350	729443.000	606.100	98.340									
100%	Vnom	969818.670	606.290	98.170	970192.000	606.290	98.180									
10%	Vmax	96024.870	800.710	97.680	96058.400	800.730	97.690									
20%	Vmax	194905.000	800.370	97.830	194968.000	800.290	97.830									
30%	Vmax	291529.000	800.540	97.700	291367.000	800.580	97.690									
50%	Vmax	486333.670	799.960	97.790	486407.000	799.980	97.790									
75%	Vmax	728666.000	800.820	97.860	728612.000	800.870	97.860									
100%	Vmax	970454.330	800.030	97.760	970201.000	800.050	97.750									