Manufacturer: Power Electronics

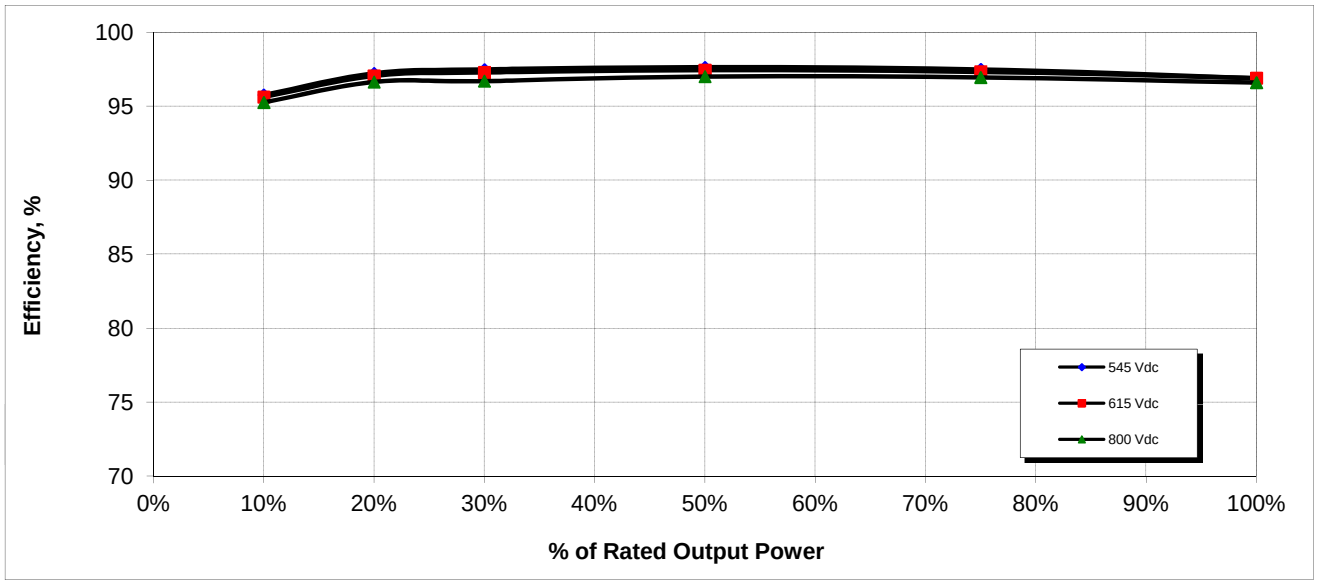
Model #: FS900CU, FS900PU

Rated Maximum Continuous Output Power: 900.00 kW Night Tare Loss: -332 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		90.00	180.00	270.00	450.00	675.00	900.00	Wtd
Vmin	545	95.76	97.22	97.49	97.63	97.49	96.89	97.41
Vnom	615	95.62	97.05	97.28	97.44	97.33	96.90	97.24
Vmax	800	95.26	96.64	96.70	97.01	96.95	96.60	96.83

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



Manufacturer: Power Electronics

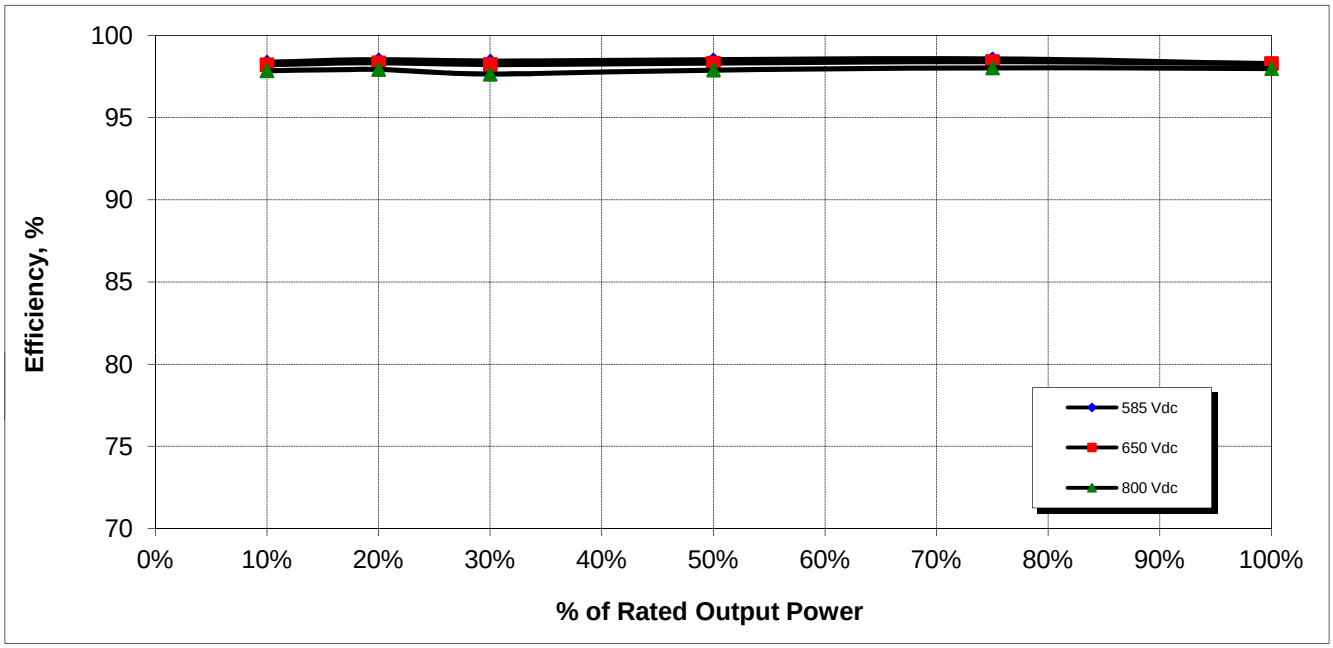
Model #: FS900CU, FS900PU

Rated Maximum Continuous Output Power: 900.0 kW Night Tare Loss: -332 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		90.00	180.00	270.00	450.00	675.00	900.00	Wtd
Vmin	585	98.37	98.51	98.44	98.52	98.58	98.27	98.52
Vnom	650	98.22	98.34	98.23	98.32	98.41	98.29	98.35
Vmax	800	97.85	97.92	97.65	97.90	98.03	97.99	97.94

Inverter Efficiency only = 98.5%



1.0MVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		90.00	180.00	270.00	450.00	675.00	900.00	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	89418.200	585.260	98.400	89397.070	585.290	98.400	89425.770	585.280	98.390	357215.200	679.090	98.220	89412.170	585.280	98.390
20%	Vmin	180664.670	585.670	98.510	180785.000	585.720	98.510	180751.000	585.740	98.510	180856.000	585.760	98.520	180780.330	585.780	98.510
30%	Vmin	270370.000	586.600	98.440	270484.330	586.590	98.440	270842.330	586.580	98.440	270824.000	586.550	98.440	270824.000	586.550	98.440
50%	Vmin	451348.330	585.310	98.520	451063.670	585.280	98.520	451465.000	585.270	98.520	451536.330	585.290	98.520	451219.000	585.300	98.520
75%	Vmin	676212.330	585.620	98.570	675798.000	585.610	98.570	676137.330	585.650	98.580	676253.670	585.620	98.580	676142.000	585.590	98.580
100%	Vmin	898884.670	585.140	98.420	898346.000	585.140	98.320	898440.670	585.100	98.370	899562.670	585.100	98.420	898998.670	585.050	98.420
10%	Vnom	89224.430	650.010	98.220	89228.730	650.050	98.220	89231.370	650.030	98.220	89201.100	650.050	98.220	89252.400	650.040	98.220
20%	Vnom	181110.000	648.670	98.350	181028.670	648.650	98.350	181002.330	648.680	98.320	181046.330	648.710	98.350	181133.670	648.700	98.340
30%	Vnom	271754.000	650.430	98.230	271842.670	650.400	98.240	271796.670	650.350	98.240	271712.670	650.400	98.230	271822.000	650.410	98.240
50%	Vnom	451229.000	650.880	98.320	451378.670	650.900	98.320	451170.330	650.890	98.320	451200.330	650.890	98.320	451118.330	650.890	98.320
75%	Vnom	676313.000	650.490	98.410	675116.670	650.500	98.410	675900.000	650.520	98.410	675859.000	650.530	98.410	675854.330	650.520	98.410
100%	Vnom	902460.330	650.150	98.290	903156.000	650.150	98.290	902762.330	650.090	98.280	903013.670	650.080	98.290	902934.670	650.080	98.290
10%	Vmax	89070.900	800.950	97.820	89047.400	800.940	97.830	89054.900	800.970	97.830	89064.000	800.980	97.830	89044.700	800.990	97.830
20%	Vmax	180606.330	800.510	97.930	180471.000	800.500	97.920	180475.670	800.490	97.920	180458.670	800.480	97.920	180509.000	800.540	97.930
30%	Vmax	270313.670	800.230	96.980	270696.670	800.310	97.700	270425.670	800.360	97.770	270515.000	800.350	97.770	270536.000	800.360	97.760
50%	Vmax	450341.000	800.050	97.900	450086.330	800.070	97.890	450410.330	800.070	97.890	450354.000	800.090	97.890	450531.670	800.100	97.900
75%	Vmax	675416.000	800.480	98.060	675165.000	800.520	98.040	675739.000	800.510	98.060	675647.330	800.520	98.060	675321.670	800.530	98.060
100%	Vmax	901784.000	800.040	97.990	901586.670	800.070	97.980	901514.330	800.060	97.980	902042.670	800.070	97.980	901310.000	800.080	97.980

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	89412.170	585.280	98.390	89313.600	585.250	98.380									
20%	Vmin	180714.670	585.780	98.520	180908.000	585.780	98.520									
30%	Vmin	270675.330	586.560	98.440	270964.000	586.530	98.440									
50%	Vmin	451098.670	585.290	98.520	451484.000	585.290	98.520									
75%	Vmin	676053.330	585.620	98.570	676366.000	585.600	98.580									
100%	Vmin	898374.330	585.090	98.420	900119.000	585.080	98.420									
10%	Vnom	89214.030	650.080	98.220	89214.800	650.090	98.220									
20%	Vnom	181147.330	648.680	98.340	181041.000	648.700	98.340									
30%	Vnom	271583.670	650.410	98.230	271728.000	650.430	98.230									
50%	Vnom	451125.000	650.900	98.320	451267.000	650.940	98.330									
75%	Vnom	676388.330	650.500	98.410	676246.000	650.520	98.410									
100%	Vnom	902423.670	650.090	98.290	903406.000	650.020	98.300									
10%	Vmax	89051.230	800.940	97.830	89104.000	800.960	97.820									
20%	Vmax	180406.330	800.470	97.930	180370.000	800.550	97.920									
30%	Vmax	270224.000	800.370	97.760	270856.000	800.370	97.780									
50%	Vmax	450791.670	800.110	97.900	450359.000	800.070	97.900									
75%	Vmax	675330.330	800.540	97.850	675691.000	800.510	98.060									
100%	Vmax	901654.330	800.080	97.980	901323.000	800.100	97.980									