Manufacturer: Power Electronics

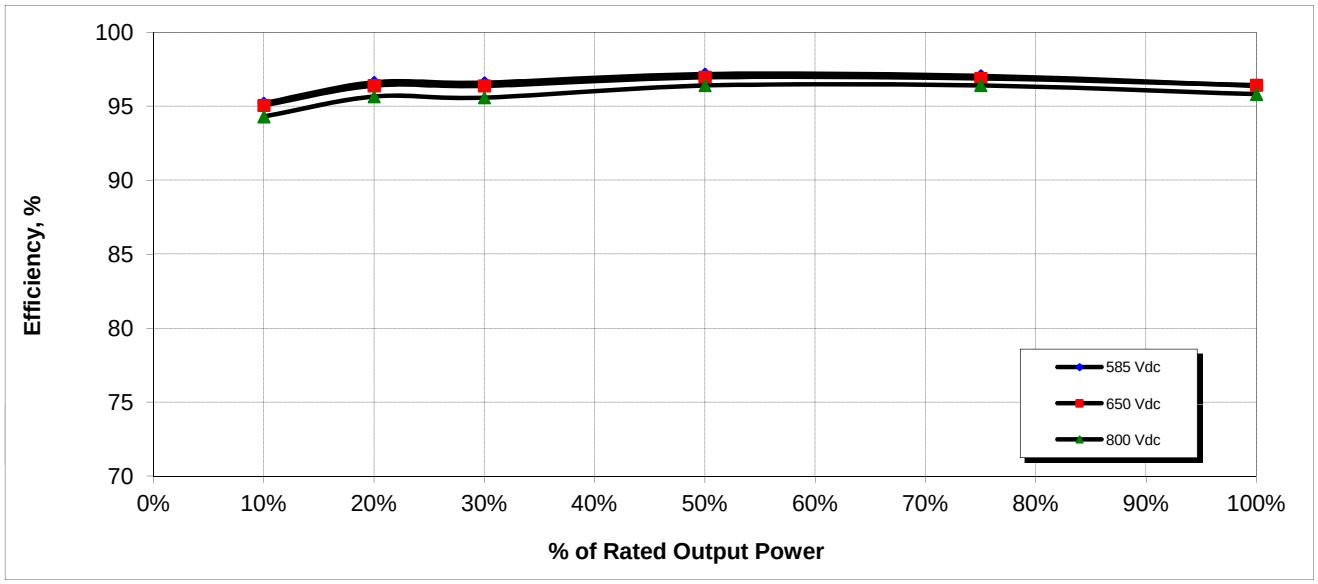
Model #: FS300CU, FS300PU

Rated Maximum Continuous Output Power: 300.00 kW Night Tare Loss: 232 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		30.00	60.00	90.00	150.00	225.00	300.00	Wtd
Vmin	585	95.21	96.62	96.60	97.18	97.06	96.37	96.90
Vnom	650	95.06	96.39	96.37	96.95	96.88	96.42	96.72
Vmax	800	94.30	95.65	95.57	96.40	96.40	95.81	96.15

CEC Efficiency of Inverter and MV TP1 Transformer = 96.5%



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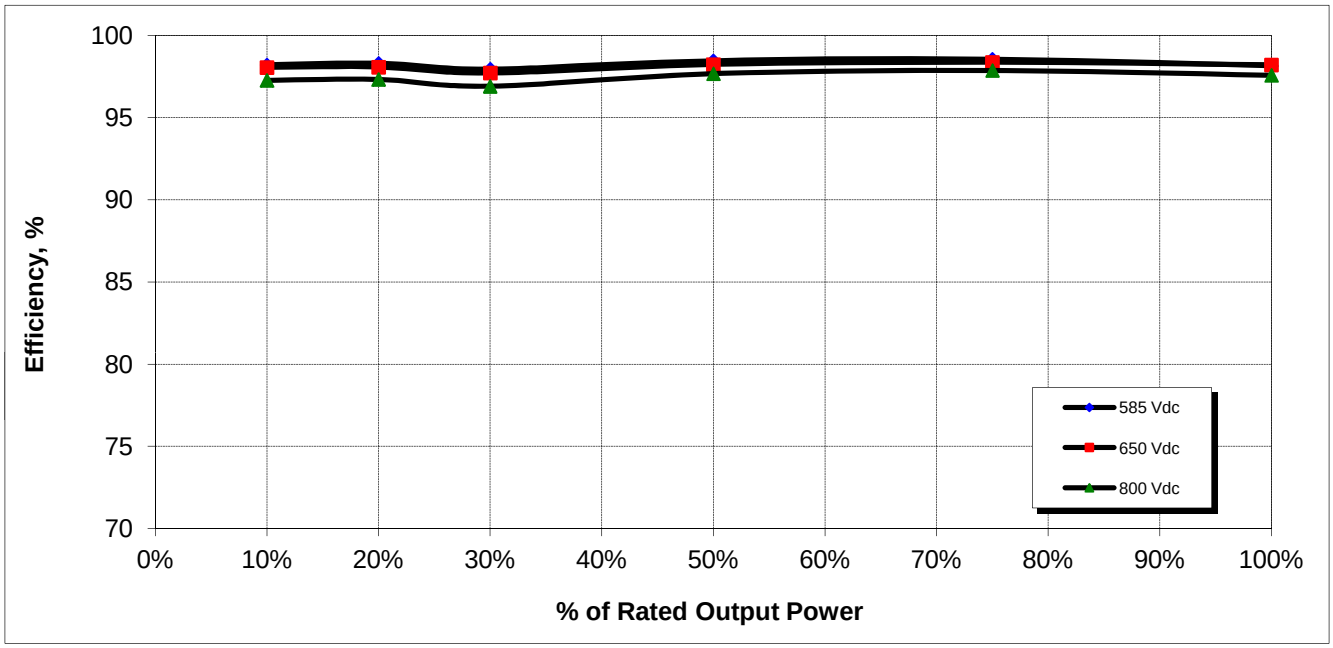
Model #: FS300CU, FS300PU

Rated Maximum Continuous Output Power: 300.0 kW Night Tare Loss: 232 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		30.00	60.00	90.00	150.00	225.00	300.00	Wtd
Vmin	585	98.21	98.30	97.94	98.46	98.54	98.15	98.41
Vnom	650	98.05	98.07	97.71	98.23	98.36	98.20	98.22
Vmax	800	97.26	97.32	96.90	97.67	97.87	97.58	97.65

Inverter Efficiency only = 98.0%



500kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		30.00	60.00	90.00	150.00	225.00	300.00	Wtd
Vmin	585	96.95	98.29	98.63	98.7	98.5	98.19	98.5
Vnom	650	96.95	98.29	98.63	98.7	98.5	98.19	98.5
Vmax	800	96.95	98.29	98.63	98.7	98.5	98.19	98.5

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	105741.667	540.212	98.466	105602.000	540.168	98.350	105462.333	540.181	98.176	105538.333	540.169	97.932	105594.000	540.193	98.175
20%	Vmin	223579.000	540.061	98.253	223505.333	540.049	98.254	223479.667	540.076	98.249	223087.000	540.057	98.181	223680.333	540.069	98.386
30%	Vmin	335096.333	540.759	97.955	336041.333	540.721	98.045	335450.000	540.733	98.042	335742.333	540.706	97.806	335742.333	540.706	97.806
50%	Vmin	556088.667	540.433	98.470	555845.000	540.407	98.470	556046.000	540.382	98.443	556029.333	540.444	98.413	555963.333	540.430	98.469
75%	Vmin	833556.000	539.821	98.540	833068.333	539.808	98.540	833446.333	539.774	98.540	832975.667	539.758	98.541	832616.333	539.769	98.543
100%	Vmin	1110213.333	540.451	98.354	1110150.000	540.410	98.352	1110270.000	540.418	98.350	1110450.000	540.405	98.350	1110586.667	540.390	98.350
10%	Vnom	105145.667	606.891	98.018	105375.000	606.881	98.243	105368.667	606.905	98.236	105166.000	606.889	98.020	104905.333	606.890	97.942
20%	Vnom	221925.000	606.751	98.024	222116.333	606.744	98.079	222558.333	606.744	98.167	222537.333	606.693	98.164	221929.000	606.738	98.019
30%	Vnom	332832.667	605.883	97.689	333341.000	605.884	97.718	333878.333	605.885	97.787	333337.667	605.902	97.786	333936.333	605.889	97.623
50%	Vnom	556178.000	606.450	98.040	555637.000	606.467	98.293	556126.667	606.441	98.139	555867.667	606.413	98.292	556046.000	606.416	98.268
75%	Vnom	831892.000	605.927	98.230	831511.000	605.956	98.377	832520.000	605.893	98.379	832362.333	605.902	98.377	833120.000	605.894	98.380
100%	Vnom	1110593.333	605.514	98.192	1110796.667	605.510	98.205	1111053.333	605.509	98.198	1110413.333	605.499	98.206	1110696.667	605.495	98.206
10%	Vmax	104328.000	800.142	97.242	104272.667	800.113	97.230	104346.667	800.123	97.229	104366.000	800.101	97.241	104347.667	800.120	97.235
20%	Vmax	222340.333	799.995	97.374	222293.667	800.015	97.373	222111.333	799.992	97.363	222419.000	800.024	97.021	222364.667	800.040	97.368
30%	Vmax	333336.667	800.249	96.891	333382.667	800.252	96.884	333197.000	800.261	96.881	333826.000	800.216	96.886	333253.000	800.149	96.883
50%	Vmax	555708.667	800.112	97.710	555631.000	800.072	97.713	555428.000	800.077	97.709	555571.667	800.015	97.451	555526.667	800.097	97.707
75%	Vmax	832715.667	800.683	97.883	833330.333	800.742	97.859	832416.333	800.714	97.880	832431.667	800.671	97.880	833136.333	800.696	97.844
100%	Vmax	1110956.667	800.468	97.425	1109520.000	800.483	97.809	1110266.667	800.467	97.807	1110343.333	800.493	97.808	1109976.667	800.458	97.809

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	105594.000	540.193	98.175	105510.000	540.189	98.184									
20%	Vmin	223434.000	540.055	98.387	223284.000	540.055	98.387									
30%	Vmin	335441.333	540.733	97.990	335095.000	540.708	97.943									
50%	Vmin	556235.333	540.372	98.469	556241.000	540.377	98.471									
75%	Vmin	833240.000	539.751	98.542	832084.000	539.792	98.543									
100%	Vmin	1110376.667	540.421	98.349	1111080.000	540.448	98.348									
10%	Vnom	105073.667	606.899	97.950	105036.000	606.912	97.948									
20%	Vnom	221762.000	606.719	98.025	221871.000	606.708	98.023									
30%	Vnom	333775.000	605.891	97.696	333725.000	605.906	97.695									
50%	Vnom	555896.333	606.409	98.289	556381.000	606.439	98.292									
75%	Vnom	832588.000	605.892	98.379	833925.000	605.882	98.379									
100%	Vnom	1110633.333	605.490	98.205	1110600.000	605.470	98.204									
10%	Vmax	104387.667	800.118	97.237	104195.000	800.055	97.241									
20%	Vmax	222270.333	800.071	97.365	222175.000	800.070	97.358									
30%	Vmax	333610.667	800.117	96.913	333900.000	800.123	96.972									
50%	Vmax	556115.333	800.070	97.707	555085.000	800.050	97.707									
75%	Vmax	832906.000	800.670	97.879	832553.000	800.669	97.880									
100%	Vmax	1110343.333	800.488	97.730	1110210.000	800.623	97.557									