Manufacturer: Power Electronics

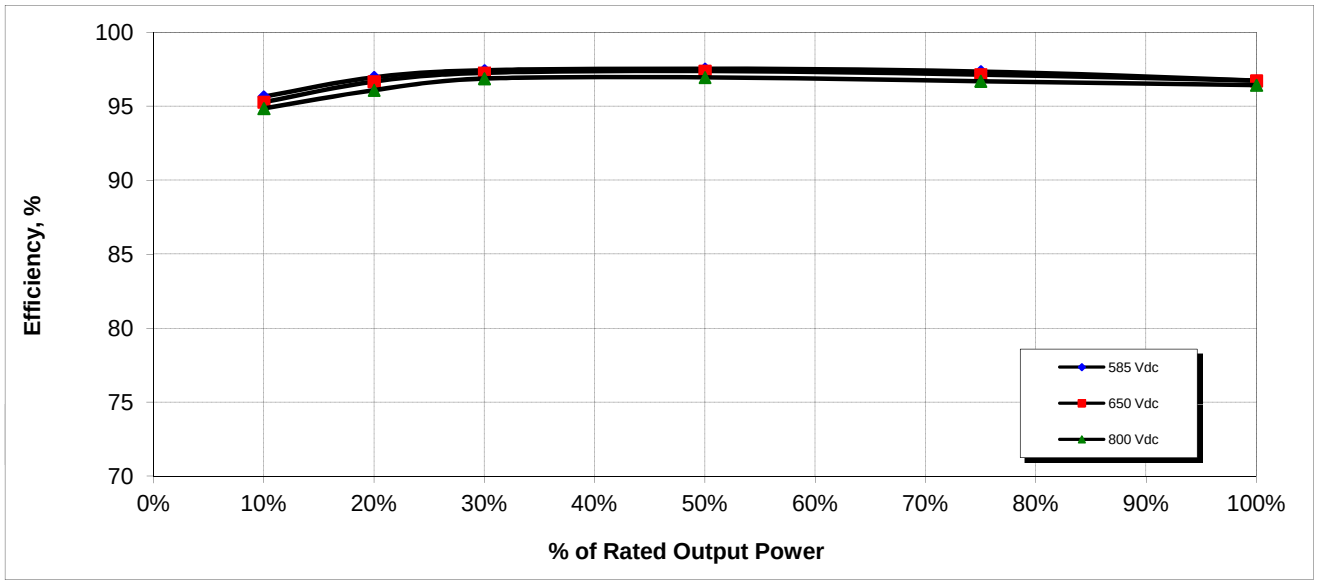
Model #: FS600CU, FS600PU

Rated Maximum Continuous Output Power: 600.00 kW Night Tare Loss: 281 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		60.00	120.00	180.00	300.00	450.00	600.00	Wtd
Vmin	585	95.65	96.96	97.42	97.53	97.34	96.73	97.27
Vnom	650	95.27	96.66	97.25	97.38	97.13	96.72	97.08
Vmax	800	94.85	96.09	96.87	96.95	96.70	96.43	96.65

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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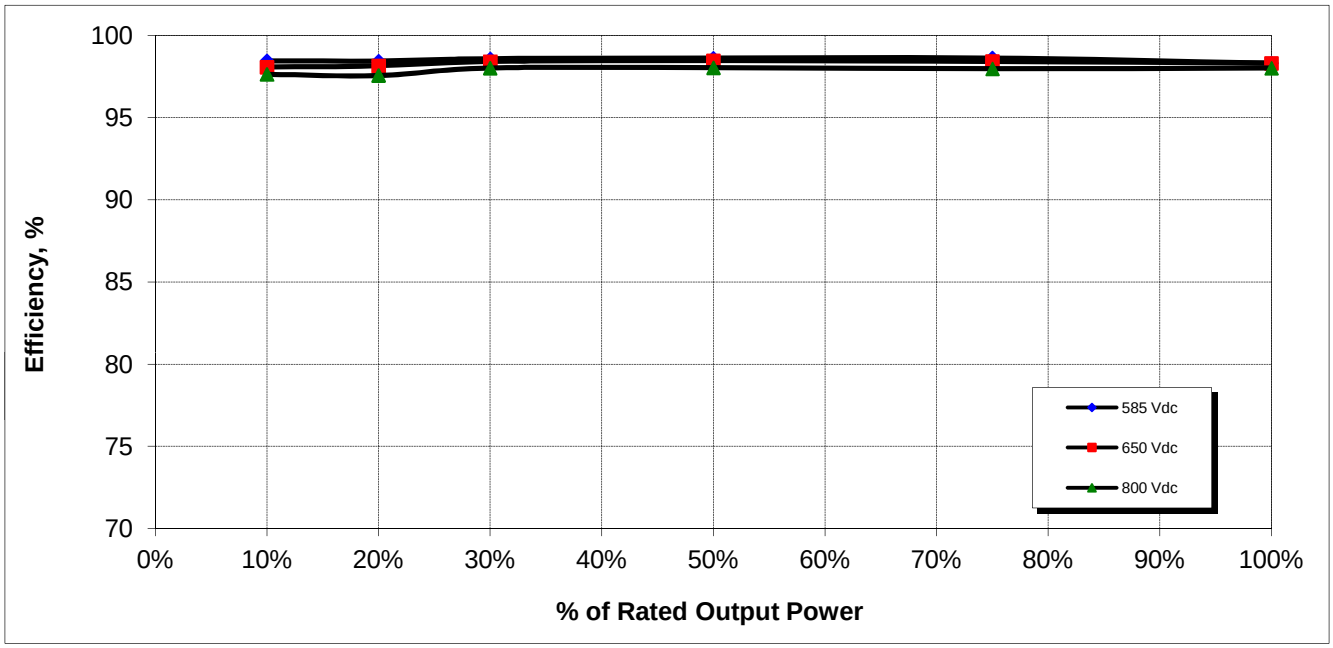
Model #: FS600CU, FS600PU

Rated Maximum Continuous Output Power: 600.00 kW Night Tare Loss: 281 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		60.00	120.00	180.00	300.00	450.00	600.00	Wtd
Vmin	585	98.46	98.44	98.58	98.61	98.62	98.31	98.58
Vnom	650	98.07	98.14	98.40	98.46	98.41	98.30	98.39
Vmax	800	97.63	97.56	98.01	98.03	97.97	98.01	97.96

Inverter Efficiency only = 98.5%



750 kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		60.00	120.00	180.00	300.00	450.00	600.00	Wtd
Vmin	585	97.15	98.49	98.83	98.9	98.7	98.39	98.67
Vnom	650	97.15	98.49	98.83	98.9	98.7	98.39	98.67
Vmax	800	97.15	98.49	98.83	98.9	98.7	98.39	98.67

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	59188.000	585.463	98.267	59211.867	585.433	98.264	59205.433	585.401	98.259	239989.322	679.074	98.216	59468.767	585.448	98.717
20%	Vmin	120450.500	585.736	98.364	120429.000	585.728	98.355	120363.333	585.680	98.348	120428.667	585.694	98.371	120696.667	585.650	98.591
30%	Vmin	180101.500	585.743	98.567	180074.667	585.746	98.577	179995.000	585.750	98.572	179989.333	585.731	98.578	179989.333	585.731	98.578
50%	Vmin	300316.500	586.370	98.623	300050.333	585.733	98.637	300176.667	585.415	98.639	300222.000	585.400	98.622	300322.000	585.351	98.589
75%	Vmin	449942.000	586.135	98.626	450181.667	586.119	98.619	450218.000	586.125	98.582	450131.667	586.095	98.635	450434.333	586.094	98.609
100%	Vmin	602269.000	585.906	98.468	602008.000	585.895	98.472	602242.000	585.894	98.405	602313.667	585.913	98.431	601899.000	585.896	98.476
10%	Vnom	59071.300	650.262	98.051	59066.767	650.264	98.043	59078.233	650.245	98.065	59094.633	650.211	98.086	59096.167	650.235	98.076
20%	Vnom	120796.500	650.550	98.166	120701.667	650.502	98.164	120616.333	650.529	98.150	120584.667	650.598	98.171	120667.667	650.612	98.173
30%	Vnom	180387.000	650.531	98.423	180317.667	650.500	98.424	180335.000	650.547	98.416	180409.333	650.519	98.306	180272.667	650.508	98.421
50%	Vnom	300587.000	650.305	98.433	300507.667	650.301	98.468	300270.333	650.302	98.456	300369.333	650.247	98.443	300638.333	650.255	98.472
75%	Vnom	451027.000	649.937	98.225	450525.000	649.999	98.431	450106.667	649.968	98.476	450719.000	650.004	98.364	450373.333	650.043	98.419
100%	Vnom	602493.000	650.772	98.232	602256.000	650.832	98.345	602568.667	650.806	98.344	602335.000	650.848	98.326	602689.000	650.842	98.185
10%	Vmax	58957.800	800.020	97.551	59010.267	800.027	97.551	58968.467	800.039	97.560	58980.900	800.061	97.580	59011.867	799.975	97.577
20%	Vmax	120834.500	800.361	97.638	120738.000	800.360	97.627	120906.667	800.325	97.371	120854.333	800.325	97.621	120705.000	800.353	97.631
30%	Vmax	181185.500	800.361	97.961	181038.000	800.396	98.027	180998.333	800.347	98.020	181224.667	800.366	98.014	180961.333	800.362	98.025
50%	Vmax	300587.500	800.125	97.630	300124.667	800.184	98.115	300117.667	800.183	98.113	300201.333	800.184	98.111	300019.333	800.198	98.054
75%	Vmax	451032.500	799.977	98.102	450596.667	799.951	98.052	450885.000	799.952	97.641	450814.667	800.011	98.104	450850.667	799.991	97.732
100%	Vmax	601216.000	800.841	98.006	600926.667	800.818	98.048	601284.000	800.764	97.954	600658.000	800.815	98.046	601014.333	800.802	98.048

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	59468.767	585.448	98.717	59462.200	585.409	98.748									
20%	Vmin	120685.000	585.640	98.592	120815.000	585.547	98.472									
30%	Vmin	179956.667	585.747	98.583	180251.000	585.736	98.577									
50%	Vmin	300313.333	585.403	98.560	300792.000	585.387	98.631									
75%	Vmin	450165.667	586.062	98.639	450290.000	586.123	98.638									
100%	Vmin	602373.333	585.861	98.353	602201.000	585.864	98.479									
10%	Vnom	59073.500	650.205	98.079	59150.200	650.239	98.068									
20%	Vnom	120774.000	650.582	98.018	120572.000	650.580	98.171									
30%	Vnom	180270.667	650.516	98.420	180378.000	650.529	98.417									
50%	Vnom	300452.000	650.234	98.473	300483.000	650.240	98.472									
75%	Vnom	450172.000	650.041	98.481	450419.000	649.983	98.481									
100%	Vnom	602506.667	650.867	98.353	602353.000	650.860	98.329									
10%	Vmax	58975.500	800.000	97.596	59069.800	800.002	97.573									
20%	Vmax	120654.667	800.317	97.635	121018.000	800.278	97.414									
30%	Vmax	181091.667	800.349	98.029	180923.000	800.412	98.028									
50%	Vmax	299966.000	800.183	98.090	300552.000	800.208	98.106									
75%	Vmax	450928.333	800.014	98.062	450653.000	800.008	98.100									
100%	Vmax	601529.000	800.802	98.011	601505.000	800.792	97.940									