Manufacturer: Power Electronics

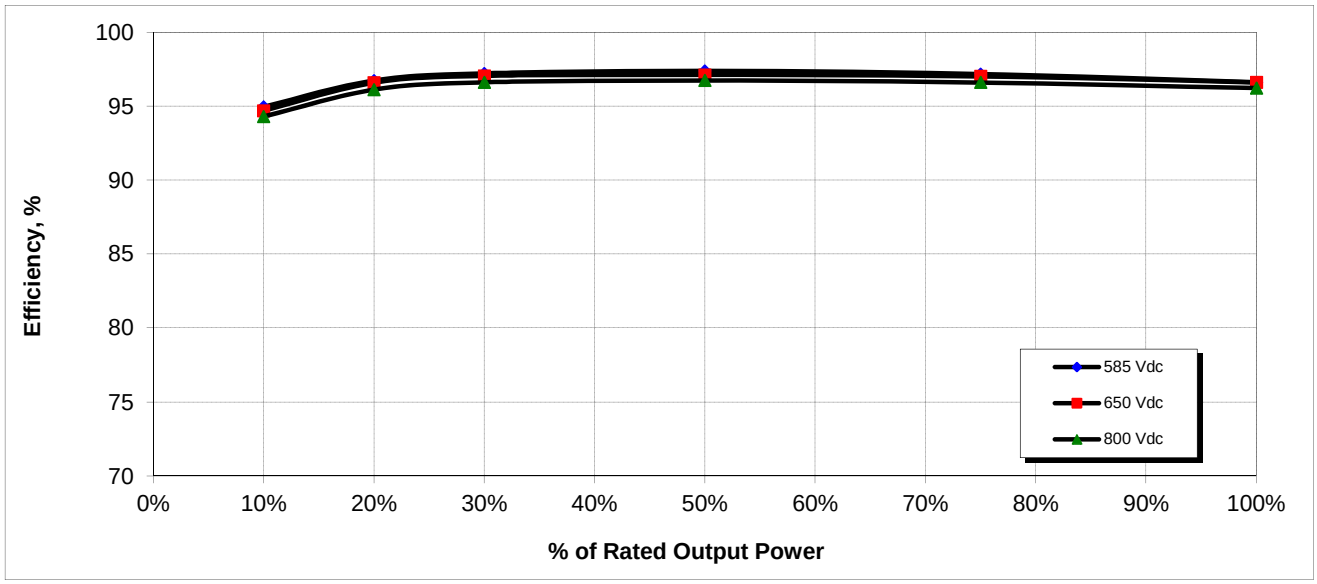
Model #: FS1250CU, FS1250PU

Rated Maximum Continuous Output Power: 1250.00 kW Night Tare Loss: 630 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		125.00	250.00	375.00	625.00	937.50	1250.00	Wtd
Vmin	585	94.97	96.74	97.21	97.39	97.18	96.62	97.09
Vnom	650	94.69	96.58	97.04	97.11	97.01	96.61	96.90
Vmax	800	94.30	96.12	96.61	96.74	96.60	96.22	96.50

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



Manufacturer: Power Electronics

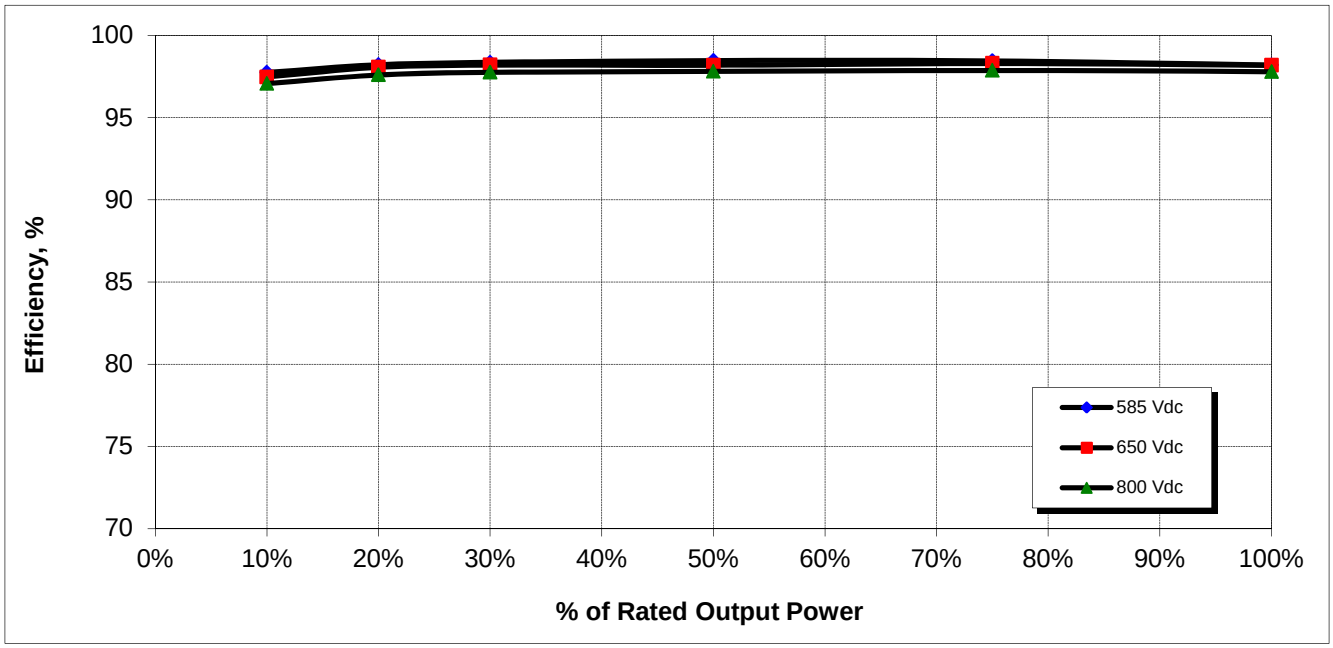
Model #: FS1250CU, FS1250PU

Rated Maximum Continuous Output Power: 1250.00 kW Night Tare Loss: 630 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		125.00	250.00	375.00	625.00	937.50	1250.00	Wtd
Vmin	585	97.75	98.22	98.37	98.47	98.46	98.20	98.40
Vnom	650	97.47	98.06	98.19	98.19	98.29	98.19	98.21
Vmax	800	97.07	97.59	97.76	97.81	97.88	97.80	97.80

Inverter Efficiency only = 98.0%



800kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		125.00	250.00	375.00	625.00	937.50	1250.00	Wtd
Vmin	585	97.15	98.49	98.83	98.90	98.70	98.39	98.70
Vnom	650	97.15	98.49	98.83	98.90	98.70	98.39	98.70
Vmax	800	97.15	98.49	98.83	98.90	98.70	98.39	98.70

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	120,550.00	590.28	97.96	120,586.00	590.26	98.05	120,454.00	590.23	97.91	119,952.00	590.29	97.53	120,000.00	590.29	97.54
20%	Vmin	259,823.333	589.719	98.233	259,890.667	589.733	98.246	259,924.667	589.715	98.249	259,700.333	589.736	98.245	259,785.000	589.756	98.211
30%	Vmin	380,641.000	586.347	98.401	378,353.667	586.343	98.400	378,381.000	586.327	98.311	378,525.000	586.336	98.328	378,525.000	586.336	98.328
50%	Vmin	635,536.000	585.791	98.477	635,854.667	585.803	98.452	636,023.000	585.786	98.486	636,038.000	585.803	98.471	636,115.000	585.790	98.484
75%	Vmin	941,213.667	585.672	98.488	941,503.667	585.683	98.479	941,578.667	585.695	98.464	940,639.333	585.694	98.457	941,104.000	585.669	98.400
100%	Vmin	1,210,700.000	586.487	98.349	1,210,646.667	586.409	98.345	1,210,540.000	586.422	98.352	1,210,793.333	586.412	98.331	1,211,310.000	586.364	98.352
10%	Vnom	119,917.67	651.20	97.46	119,756.33	651.18	97.31	119,885.33	651.19	97.34	119,754.33	651.20	97.31	119,932.00	651.18	97.48
20%	Vnom	259,108.333	649.822	98.046	259,135.333	649.826	98.071	259,265.000	649.819	98.071	259,269.667	649.798	98.067	258,853.333	649.811	98.070
30%	Vnom	377,468.667	651.341	98.229	377,782.333	651.368	98.186	377,778.667	651.368	98.148	377,969.333	651.341	98.216	377,875.000	651.322	98.196
50%	Vnom	633,640.333	648.811	98.172	634,049.333	648.830	97.961	633,959.667	648.852	98.332	634,127.667	648.847	98.316	634,579.000	648.847	98.193
75%	Vnom	938,737.667	646.017	98.313	937,862.000	645.965	98.182	937,959.333	646.003	98.321	938,474.333	645.924	98.320	938,459.667	646.002	98.343
100%	Vnom	1,257,326.667	644.663	98.052	1,257,503.333	644.659	98.178	1,257,010.000	644.685	98.207	1,256,800.000	644.635	98.210	1,256,473.333	644.642	98.223
10%	Vmax	119,405.33	798.34	96.71	119,143.33	798.27	96.76	119,249.00	798.30	96.67	400,805.15	678.21	97.97	119,271.00	798.37	96.69
20%	Vmax	257,492.333	797.975	97.651	257,516.667	797.967	97.607	257,624.667	797.964	97.653	257,641.333	797.996	97.634	257,617.000	798.014	97.649
30%	Vmax	375,747.000	797.703	97.799	375,628.333	797.689	97.745	375,747.667	797.711	97.829	375,808.000	797.725	97.781	375,769.667	797.691	97.722
50%	Vmax	629,789.333	799.115	97.867	630,551.667	799.150	97.845	629,826.000	799.079	97.590	629,589.000	799.185	97.883	629,480.333	799.107	97.679
75%	Vmax	933,920.667	799.537	97.649	933,436.667	799.520	97.918	933,574.667	799.402	97.940	934,153.667	799.416	97.882	933,853.000	799.552	97.840
100%	Vmax	1,248,970.000	798.334	97.827	1,248,896.667	798.310	97.819	1,248,893.333	798.335	97.762	1,247,900.000	798.384	97.891	1,248,186.667	798.364	97.694

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	120,000.00	590.29	97.54	120,263.00	590.28	97.74									
20%	Vmin	259,804.667	589.751	98.126	260,209.000	589.815	98.219									
30%	Vmin	378,668.000	586.317	98.398	378,306.000	586.353	98.393									
50%	Vmin	635,945.000	585.773	98.451	635,672.000	585.793	98.476									
75%	Vmin	941,202.333	585.674	98.433	941,136.000	585.709	98.489									
100%	Vmin	1,210,160.000	586.386	98.367	1,210,670.000	586.438	98.383									
10%	Vnom	120,109.00	651.18	97.60	120,796.00	651.19	97.79									
20%	Vnom	259,014.333	649.840	98.059	259,136.000	649.831	98.070									
30%	Vnom	377,878.667	651.347	98.205	377,565.000	651.389	98.172									
50%	Vnom	633,737.667	648.806	98.289	634,609.000	648.790	98.068									
75%	Vnom	938,533.667	645.940	98.230	937,858.000	645.999	98.338									
100%	Vnom	1,256,830.000	644.630	98.219	1,255,040.000	644.651	98.229									
10%	Vmax	119,425.33	798.35	96.99	119,664.00	798.27	96.57									
20%	Vmax	257,664.000	797.963	97.544	257,935.000	798.021	97.419									
30%	Vmax	375,701.000	797.674	97.718	376,422.000	797.676	97.703									
50%	Vmax	630,087.333	799.132	97.961	630,474.000	799.126	97.877									
75%	Vmax	932,691.667	799.470	97.943	933,530.000	799.424	97.968									
100%	Vmax	1,248,203.333	798.349	97.770	1,246,850.000	798.341	97.900									