Manufacturer: Power Electronics

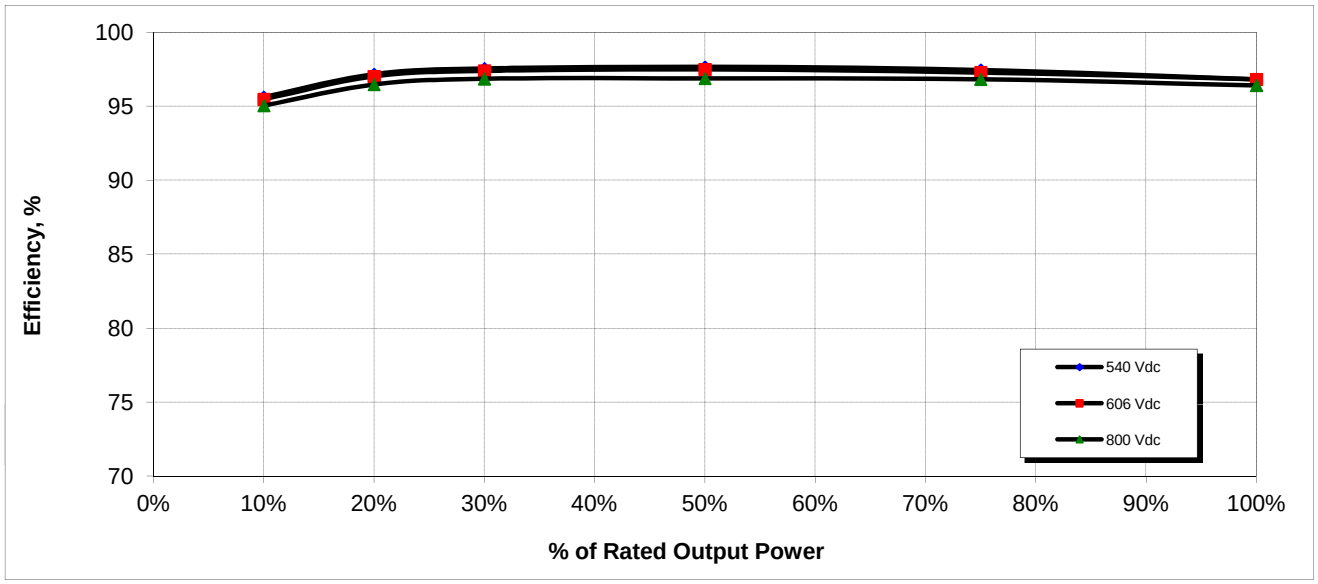
Model #: FS830CU, FS830PU

Rated Maximum Continuous Output Power: 830.0 kW Night Tare Loss: 466 W

Vmin: 540 Vdc Vnom: 606 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		83.00	166.00	249.00	415.00	622.50	830.00	Wtd
Vmin	540	95.62	97.16	97.55	97.66	97.45	96.81	97.39
Vnom	606	95.46	97.02	97.39	97.49	97.28	96.82	97.23
Vmax	800	95.03	96.46	96.85	96.87	96.81	96.40	96.72

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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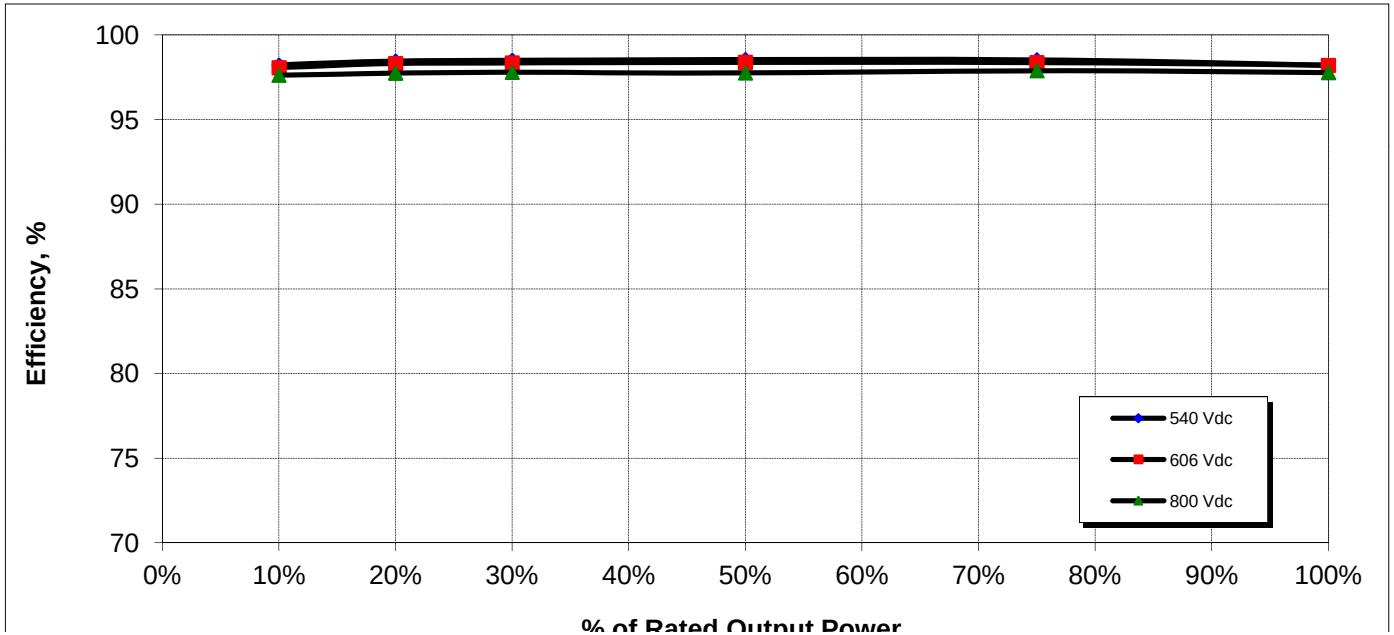
Model #: FS830CU, FS830PU

Rated Maximum Continuous Output Power: 830.0 kW Night Tare Loss: 466 W

Vmin: 540 Vdc Vnom: 606 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		83.00	166.00	249.00	415.00	622.50	830.00	Wtd
Vmin	540	98.22	98.45	98.50	98.55	98.53	98.19	98.50
Vnom	606	98.06	98.31	98.34	98.37	98.36	98.20	98.34
Vmax	800	97.62	97.74	97.79	97.75	97.89	97.78	97.82

Inverter Efficiency only = 98.0%



Inverter Efficiency Data

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)	(%)
0.100	Vmin	82,403.067	541.589	98.215	82,444.900	541.587	98.225	82,453.567	541.592	98.232	82,428.200	649.721	98.168	82,477.833	541.611	98.233
0.200	Vmin	167,120.000	541.459	98.437	167,184.667	541.409	98.451	167,095.667	541.430	98.463	167,121.667	541.439	98.459	167,172.000	541.411	98.456
0.300	Vmin	249,356.667	541.073	98.498	249,220.000	541.098	98.500	249,326.667	541.073	98.504	249,511.000	541.038	98.503	249,511.000	541.038	98.503
0.500	Vmin	415,460.000	540.852	98.543	415,634.000	540.834	98.548	415,677.000	540.831	98.549	415,693.667	540.855	98.546	415,777.667	540.850	98.550
0.750	Vmin	623,259.000	540.518	98.530	624,057.000	540.526	98.534	624,016.333	540.540	98.539	623,401.333	540.506	98.539	624,038.000	540.493	98.541
1.000	Vmin	831,987.667	539.903	98.365	831,233.000	539.868	98.357	831,676.333	539.840	98.353	831,337.667	539.837	98.356	831,392.000	539.867	98.358
0.100	Vnom	82,555.600	606.419	98.052	82,543.333	606.445	98.056	82,521.200	606.431	98.060	82,523.633	606.431	98.071	82,520.833	606.418	98.080
0.200	Vnom	166,562.667	606.676	98.305	166,572.667	606.285	98.304	166,636.000	606.327	98.304	166,568.000	606.307	98.297	166,570.667	606.256	98.310
0.300	Vnom	249,606.000	606.982	98.340	249,620.333	606.975	98.342	249,647.000	606.993	98.342	249,705.000	606.987	98.339	249,782.333	606.980	98.337
0.500	Vnom	416,093.333	606.753	98.374	416,328.000	606.752	98.376	415,881.333	606.782	98.377	415,880.333	606.778	98.372	416,263.000	606.775	98.376
0.750	Vnom	623,298.000	606.481	98.367	623,373.667	606.501	98.312	623,419.000	606.483	98.367	623,437.000	606.501	98.369	623,279.000	606.503	98.371
1.000	Vnom	830,368.667	606.859	98.210	830,754.333	606.837	98.208	830,533.000	606.845	98.207	830,700.000	606.891	98.209	830,405.000	606.823	98.166
0.100	Vmax	82,044.733	800.789	97.609	82,063.567	800.793	97.609	82,023.000	800.774	97.606	82,055.067	800.777	97.594	82,020.967	800.807	97.586
0.200	Vmax	166,609.333	800.671	97.789	166,488.333	800.707	97.782	166,652.667	800.681	97.514	166,504.000	800.712	97.783	166,544.000	800.686	97.772
0.300	Vmax	249,564.667	800.458	97.797	249,529.000	800.432	97.795	249,471.000	800.430	97.799	249,358.667	800.488	97.797	249,402.667	800.520	97.798
0.500	Vmax	415,078.667	800.332	97.828	414,971.667	800.275	97.465	415,069.333	800.321	97.827	414,964.333	800.340	97.824	415,336.000	800.310	97.710
0.750	Vmax	623,655.333	800.134	97.894	624,070.000	800.105	97.892	624,219.667	800.128	97.891	623,568.000	800.106	97.890	624,092.667	800.161	97.852
1.000	Vmax	831,312.000	799.640	97.775	830,913.667	799.681	97.781	831,038.000	799.678	97.785	830,448.667	799.725	97.782	830,780.333	799.681	97.780

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)	(%)
0.100	Vmin	82,477.833	541.611	98.233	82,408.800	541.537	98.239									
0.200	Vmin	167,185.000	541.401	98.450	167,146.000	541.336	98.462									
0.300	Vmin	249,466.000	541.043	98.507	249,869.000	541.055	98.509									
0.500	Vmin	416,041.333	540.831	98.550	416,043.000	540.876	98.550									
0.750	Vmin	623,774.333	540.474	98.496	623,398.000	540.488	98.544									
1.000	Vmin	831,394.333	539.876	98.362	831,127.000	539.851	98.359									
0.100	Vnom	82,500.433	606.413	98.058	82,468.000	606.435	98.065									
0.200	Vnom	166,568.333	606.252	98.309	166,600.000	606.296	98.306									
0.300	Vnom	249,718.000	606.980	98.337	249,765.000	606.967	98.343									
0.500	Vnom	416,328.333	606.768	98.374	416,294.000	606.779	98.376									
0.750	Vnom	623,330.000	606.464	98.371	623,198.000	606.421	98.373									
1.000	Vnom	830,235.000	606.839	98.211	830,476.000	606.814	98.209									
0.100	Vmax	82,025.533	800.819	97.591	82,014.200	800.769	97.586									
0.200	Vmax	166,412.000	800.723	97.780	166,403.000	800.715	97.777									
0.300	Vmax	249,428.333	800.522	97.792	249,835.000	800.504	97.787									
0.500	Vmax	415,184.667	800.310	97.798	414,551.000	800.335	97.824									
0.750	Vmax	624,118.667	800.108	97.892	624,215.000	800.134	97.894									
1.000	Vmax	830,897.667	799.712	97.786	830,810.000	799.702	97.785									