Manufacturer: Power Electronics

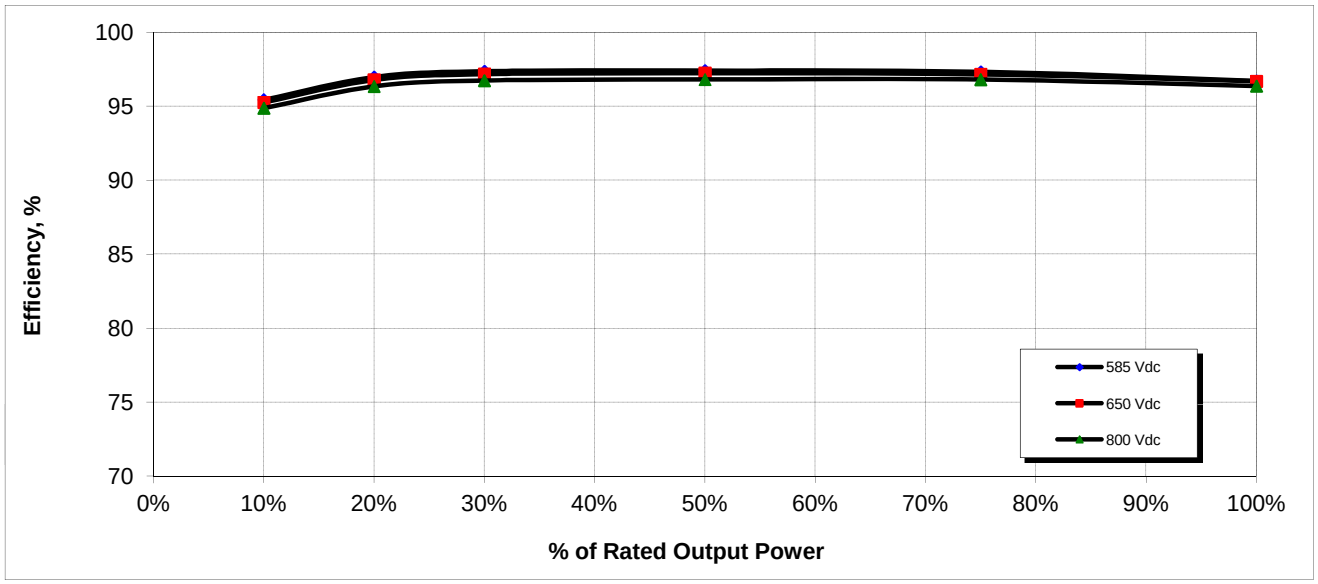
Model #: FS751CU, FS751PU

Rated Maximum Continuous Output Power: 751.0 kW Night Tare Loss: 306 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		75.10	150.20	225.30	375.50	563.25	751.00	Wtd
Vmin	585	95.44	96.97	97.36	97.41	97.33	96.71	97.22
Vnom	650	95.26	96.78	97.17	97.24	97.16	96.69	97.06
Vmax	800	94.88	96.35	96.74	96.81	96.80	96.37	96.68

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



Manufacturer: Power Electronics

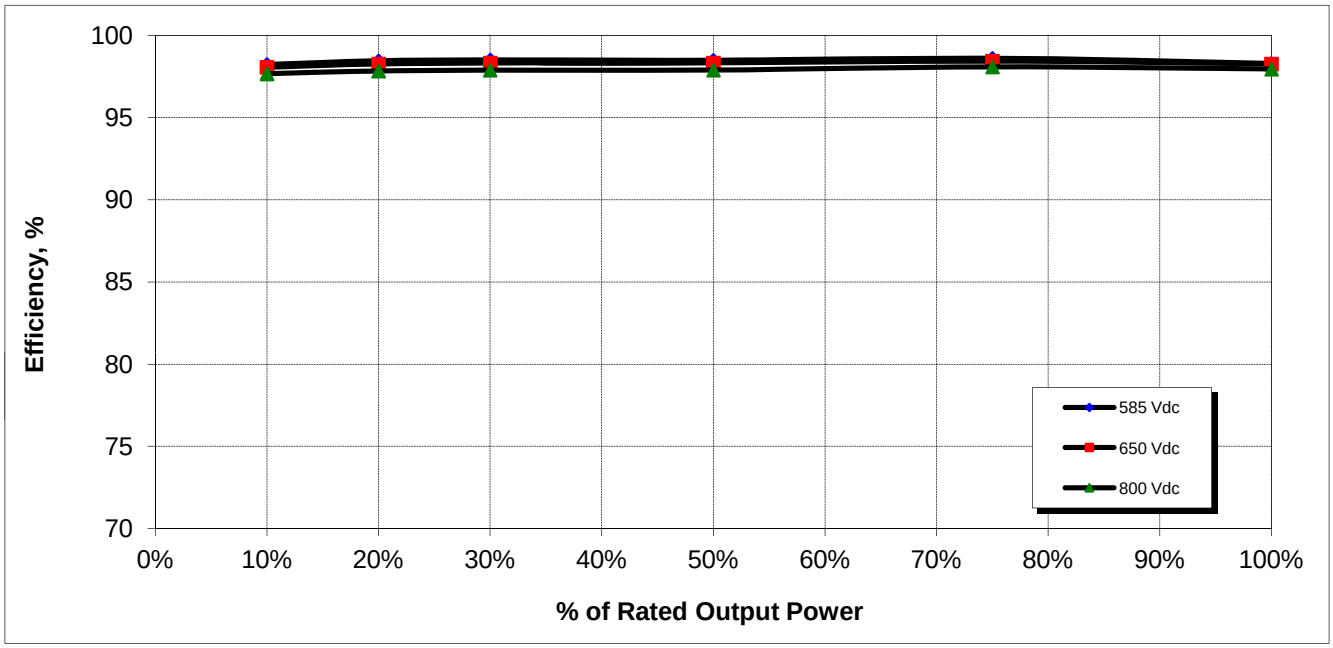
Model #: FS751CU, FS751PU

Rated Maximum Continuous Output Power: 751.0 kW Night Tare Loss: 306 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		75.10	150.20	225.30	375.50	563.25	751.00	Wtd
Vmin	585	98.24	98.46	98.51	98.49	98.61	98.30	98.53
Vnom	650	98.06	98.26	98.32	98.33	98.44	98.27	98.37
Vmax	800	97.66	97.82	97.88	97.88	98.08	97.94	97.98

Inverter Efficiency only = 98.5%



800kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		75.10	150.20	225.30	375.50	563.25	751.00	Wtd
Vmin	545	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	74,680.77	585.38	98.25	74,694.20	585.37	98.24	74,636.73	585.39	98.24	74,679.97	679.23	98.21	74,660.87	585.38	98.24
20%	Vmin	150,777.33	585.07	98.45	150,735.67	585.05	98.46	150,747.00	585.05	98.46	150,844.33	585.00	98.46	150,839.67	585.01	98.47
30%	Vmin	225,172.33	585.85	98.51	225,235.67	585.85	98.51	225,102.00	585.85	98.51	225,409.67	585.86	98.51	225,409.67	585.86	98.51
50%	Vmin	376,056.67	586.12	98.54	376,072.67	586.14	98.53	375,876.33	586.17	98.42	376,049.67	586.16	98.34	376,147.67	586.13	98.54
75%	Vmin	563,181.33	585.61	98.608	562,923.33	585.59	98.60	563,075.67	585.61	98.61	564,164.67	585.58	98.61	563,986.67	585.59	98.61
100%	Vmin	751,959.67	585.68	98.45	751,667.33	585.67	98.45	751,618.33	585.69	98.45	751,512.33	585.70	98.39	751,443.67	585.68	98.45
10%	Vnom	74,902.33	650.13	98.05	74,863.63	650.10	98.06	74,919.20	650.08	98.06	74,874.57	650.07	98.06	74,885.30	650.11	98.06
20%	Vnom	150,255.00	650.82	98.26	150,258.67	650.85	98.26	150,337.67	650.86	98.26	150,290.00	650.84	98.27	150,410.00	650.83	98.26
30%	Vnom	225,801.67	649.74	98.32	225,802.00	649.74	98.33	225,692.33	649.73	98.32	225,669.00	649.73	98.32	225,821.67	649.69	98.33
50%	Vnom	375,589.67	650.98	98.32	375,177.00	650.99	98.32	375,587.00	651.00	98.33	375,610.67	650.97	98.33	375,577.00	650.99	98.33
75%	Vnom	563,558.67	650.44	98.44	563,695.00	650.49	98.44	563,641.67	650.46	98.44	563,758.00	650.46	98.44	563,809.33	650.46	98.45
100%	Vnom	750,798.33	649.56	98.30	750,581.67	649.56	98.30	751,126.33	649.55	98.25	751,183.33	649.57	98.12	751,076.67	649.58	98.30
10%	Vmax	74,721.20	800.44	97.61	74,745.57	800.11	97.60	74,720.73	800.11	97.61	74,749.47	800.12	97.60	74,707.77	800.15	97.60
20%	Vmax	150,411.33	800.83	97.83	150,248.33	800.80	97.82	150,313.33	800.79	97.82	150,296.33	800.83	97.82	150,225.00	800.80	97.82
30%	Vmax	225,694.67	800.69	97.88	225,650.33	800.70	97.88	225,601.00	800.72	97.88	225,291.00	800.73	97.88	225,453.67	800.74	97.88
50%	Vmax	375,038.00	801.03	97.88	375,157.67	801.02	97.88	375,078.00	801.00	97.88	375,546.67	801.00	97.89	375,164.67	801.04	97.89
75%	Vmax	564,861.67	800.58	98.08	564,668.00	800.55	98.08	564,856.67	800.55	98.08	564,443.00	800.52	98.08	564,637.33	800.56	98.08
100%	Vmax	751,029.33	799.91	97.99	750,656.33	799.89	97.99	750,442.67	799.90	97.99	751,009.33	799.92	98.00	750,376.33	799.94	97.99

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	74,660.87	585.38	98.24	74,721.60	585.37	98.25									
20%	Vmin	150,749.67	585.02	98.46	150,712.00	585.05	98.46									
30%	Vmin	225,398.00	585.86	98.51	225,052.00	585.83	98.51									
50%	Vmin	376,287.33	586.17	98.54	375,710.00	586.18	98.54									
75%	Vmin	564,421.33	585.57	98.61	564,344.00	585.58	98.61									
100%	Vmin	751,175.33	585.69	98.45	749,826.00	585.75	98.45									
10%	Vnom	74,855.50	650.13	98.06	74,896.40	650.10	98.06									
20%	Vnom	150,380.00	650.87	98.26	150,487.00	650.86	98.27									
30%	Vnom	226,034.67	649.71	98.31	226,004.00	649.74	98.33									
50%	Vnom	375,747.00	650.98	98.33	376,016.00	650.97	98.33									
75%	Vnom	563,810.00	650.46	98.45	563,777.00	650.44	98.45									
100%	Vnom	751,018.33	649.61	98.30	750,735.00	649.59	98.30									
10%	Vmax	74,709.37	800.15	97.61	74,713.90	800.16	97.61									
20%	Vmax	150,389.67	800.84	97.82	150,256.00	800.86	97.82									
30%	Vmax	225,821.33	800.75	97.88	225,599.00	800.77	97.88									
50%	Vmax	375,322.33	801.04	97.89	375,186.00	801.02	97.88									
75%	Vmax	565,114.67	800.52	98.08	564,510.00	800.60	98.08									
100%	Vmax	750,697.000	799.964	97.897	750,379.000	799.918	97.991									