Manufacturer: Power Electronics

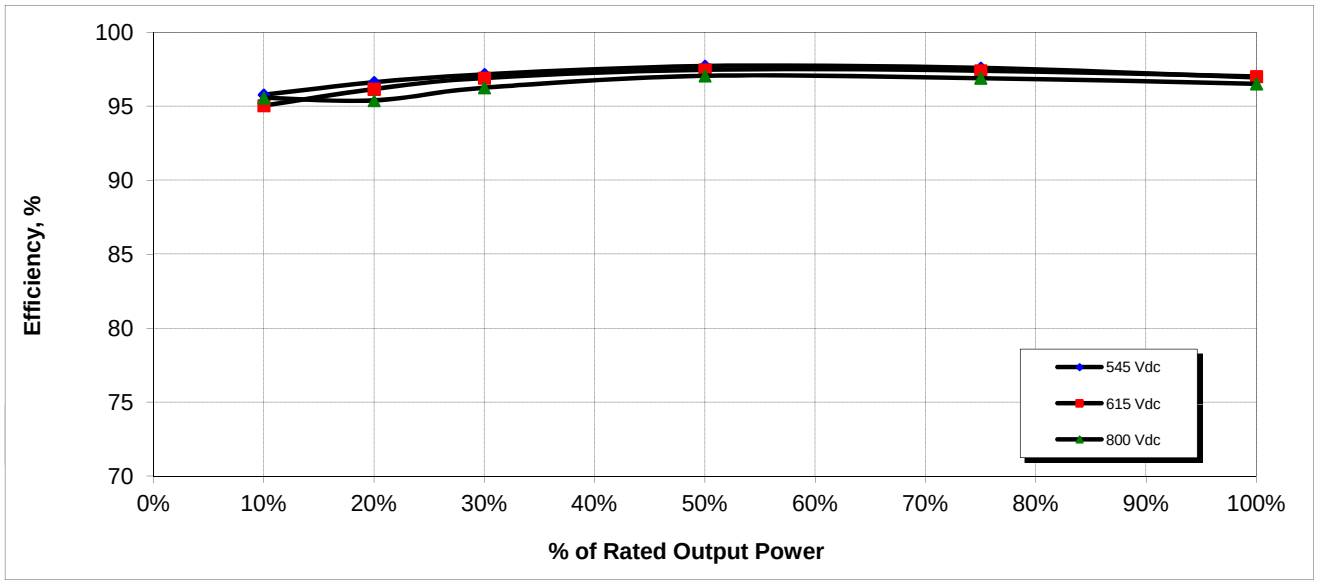
Model #: FS1200CU, FS1200PU

Rated Maximum Continuous Output Power: 1200.00 kW Night Tare Loss: 630 W

Vmin: 545 Vdc Vnom: 615 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		120.00	240.00	360.00	600.00	900.00	1200.00	Wtd
Vmin	545	95.78	96.62	97.15	97.71	97.59	96.94	97.41
Vnom	615	95.04	96.16	96.90	97.46	97.40	97.00	97.17
Vmax	800	95.57	95.38	96.25	97.06	96.90	96.52	96.70

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



Manufacturer: Power Electronics

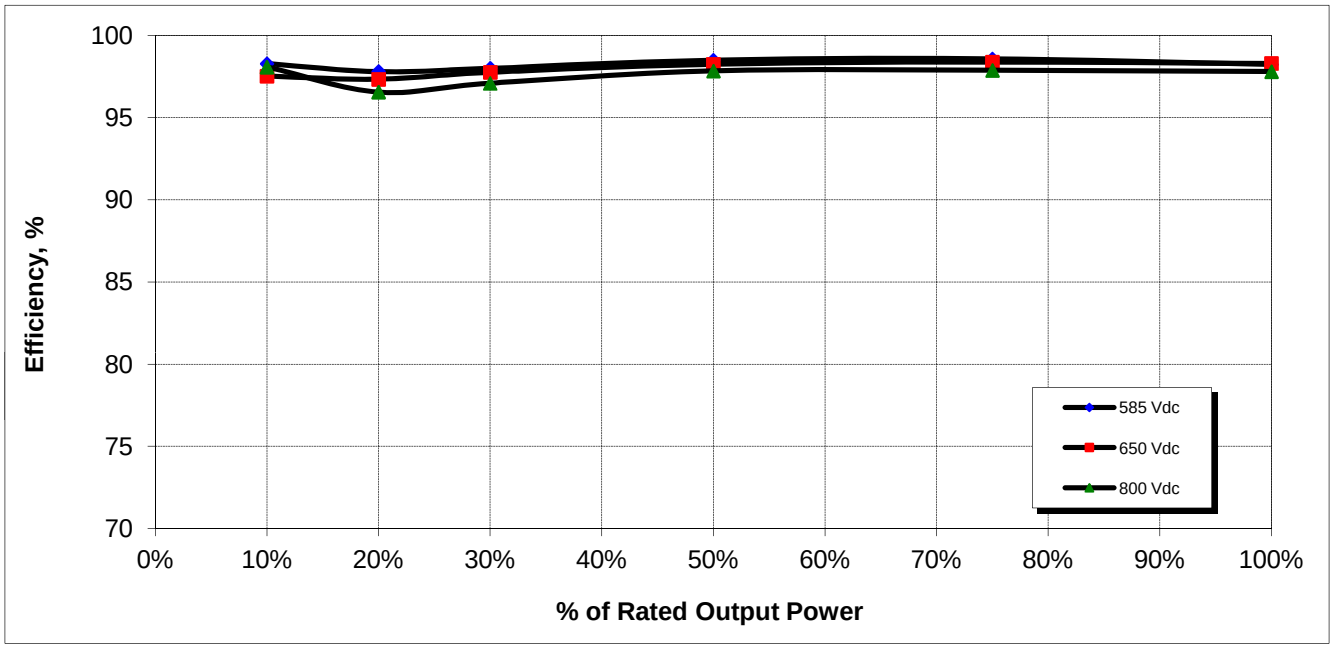
Model #: FS1200CU, FS1200PU

Rated Maximum Continuous Output Power: 1200.0 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)		120.00	240.00	360.00	600.00	900.00	1200.00	Wtd
Vmin	585	98.29	97.80	98.00	98.50	98.58	98.23	98.42
Vnom	650	97.52	97.33	97.75	98.25	98.38	98.29	98.19
Vmax	800	98.07	96.55	97.09	97.84	97.88	97.80	97.71

Inverter Efficiency only = 98.0%



800kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		120.00	240.00	360.00	600.00	900.00	1200.00	Wtd
Vmin	545	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vnom	615	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vmax	800	97.45	98.79	99.13	99.20	99.00	98.69	98.97

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	118,868.33	585.02	98.45	119,010.33	585.01	98.50	118,868.67	585.02	98.46	476,076.10	684.09	97.87	118,611.00	585.04	98.24
20%	Vmin	240,333.333	585.000	97.800	240,333.333	585.000	97.800	240,666.667	585.000	97.800	240,333.333	585.000	97.800	240,666.667	585.000	97.800
30%	Vmin	361,333.333	585.000	98.000	361,333.333	585.000	98.000	360,000.000	585.000	98.000	361,000.000	585.000	98.000	361,000.000	585.000	98.000
50%	Vmin	602,333.333	581.000	98.500	602,333.333	581.000	98.500	601,666.667	581.000	98.500	601,666.667	581.000	98.500	602,666.667	581.000	98.500
75%	Vmin	900,273.333	585.628	98.575	901,031.667	585.617	98.577	901,363.000	585.636	98.580	901,011.000	585.692	98.580	901,591.333	585.681	98.580
100%	Vmin	1,200,000.000	585.000	98.400	1,200,000.000	585.000	98.400	1,200,000.000	585.000	98.400	1,200,000.000	585.000	98.400	1,200,000.000	585.000	98.400
10%	Vnom	119,059.00	800.72	97.52	118,860.33	800.69	97.52	118,985.00	800.73	97.53	118,873.67	800.71	97.52	119,014.33	800.69	97.53
20%	Vnom	241,000.000	650.000	97.400	241,000.000	650.000	97.367	240,666.667	650.000	97.400	241,000.000	650.000	97.467	241,000.000	650.000	97.500
30%	Vnom	360,000.000	651.000	97.767	360,333.333	651.000	97.767	360,000.000	651.000	97.800	360,333.333	651.000	97.800	360,666.667	651.000	97.800
50%	Vnom	601,000.000	651.000	98.300	600,000.000	651.000	98.167	600,333.333	651.000	98.067	600,666.667	651.000	98.300	601,000.000	651.000	98.300
75%	Vnom	899,666.667	651.000	98.367	899,666.667	651.000	98.400	900,333.333	651.000	98.300	900,666.667	651.000	98.400	900,333.333	651.000	98.400
100%	Vnom	1,210,000.000	649.000	98.300	1,210,000.000	649.000	98.300	1,210,000.000	649.000	98.233	1,210,000.000	649.000	98.300	1,210,000.000	649.000	98.300
10%	Vmax	119,144.00	650.82	98.02	119,262.33	650.85	98.13	119,444.33	650.85	98.27	119,167.67	650.84	98.25	118,861.00	650.81	98.01
20%	Vmax	241,333.333	820.000	95.233	241,000.000	820.000	96.767	240,000.000	820.000	96.767	240,666.667	820.000	96.800	240,666.667	820.000	96.767
30%	Vmax	361,000.000	820.000	97.100	360,666.667	820.000	97.100	360,333.333	820.000	97.033	362,000.000	820.000	97.100	361,000.000	820.000	97.100
50%	Vmax	601,333.333	820.000	97.633	601,333.333	820.000	97.833	601,666.667	820.000	97.900	601,333.333	820.000	97.867	602,000.000	820.000	97.900
75%	Vmax	900,000.000	820.000	97.833	900,000.000	820.000	98.000	899,666.667	820.000	98.000	899,666.667	820.000	98.000	900,666.667	820.000	97.467
100%	Vmax	1,203,333.333	820.000	97.800	1,210,000.000	820.000	97.800	1,206,666.667	820.000	97.900	1,206,666.667	820.000	97.933	1,206,666.667	820.000	97.800

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	118,539.33	585.03	98.24	118,638.00	585.05	98.24									
20%	Vmin	240,666.667	585.000	97.800	242,000.000	585.000	97.800									
30%	Vmin	360,000.000	585.000	98.000	361,000.000	585.000	98.000									
50%	Vmin	601,333.333	581.000	98.500	603,000.000	581.000	98.500									
75%	Vmin	902,052.000	585.642	98.580	901,226.000	585.642	98.578									
100%	Vmin	1,200,000.000	585.000	98.400	1,200,000.000	585.000	98.400									
10%	Vnom	118,986.00	800.70	97.52	118,973.00	800.76	97.52									
20%	Vnom	241,333.333	650.000	97.500	242,000.000	650.000	96.700									
30%	Vnom	359,666.667	651.000	97.733	361,000.000	651.000	97.600									
50%	Vnom	601,000.000	651.000	98.300	602,000.000	651.000	98.300									
75%	Vnom	900,000.000	651.000	98.400	900,000.000	651.000	98.400									
100%	Vnom	1,210,000.000	649.000	98.300	1,210,000.000	649.000	98.300									
10%	Vmax	118,898.00	650.82	98.01	119,051.00	650.85	98.01									
20%	Vmax	241,000.000	820.000	96.733	241,000.000	820.000	96.800									
30%	Vmax	361,000.000	820.000	97.100	362,000.000	820.000	97.100									
50%	Vmax	601,000.000	820.000	97.833	601,000.000	820.000	97.900									
75%	Vmax	900,666.667	820.000	97.833	901,000.000	820.000	98.000									
100%	Vmax	1,210,000.000	820.000	97.800	1,210,000.000	820.000	97.800									