Manufacturer: Power Electronics

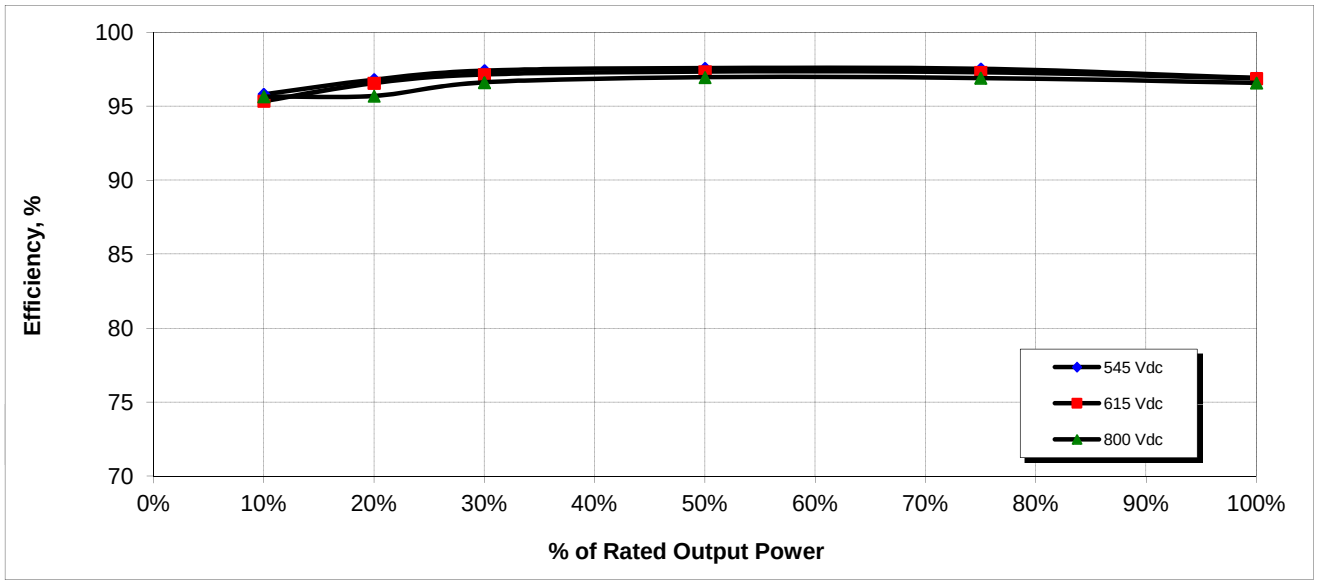
Model #: FS1050CU, FS1050PU

Rated Maximum Continuous Output Power: 1050.00 kW Night Tare Loss: 356 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		105.00	210.00	315.00	525.00	787.50	1050.00	Wtd
Vmin	545	95.81	96.80	97.40	97.57	97.52	96.91	97.38
Vnom	615	95.34	96.56	97.15	97.34	97.30	96.87	97.15
Vmax	800	95.65	95.69	96.60	96.95	96.90	96.57	96.75

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



Manufacturer: Power Electronics

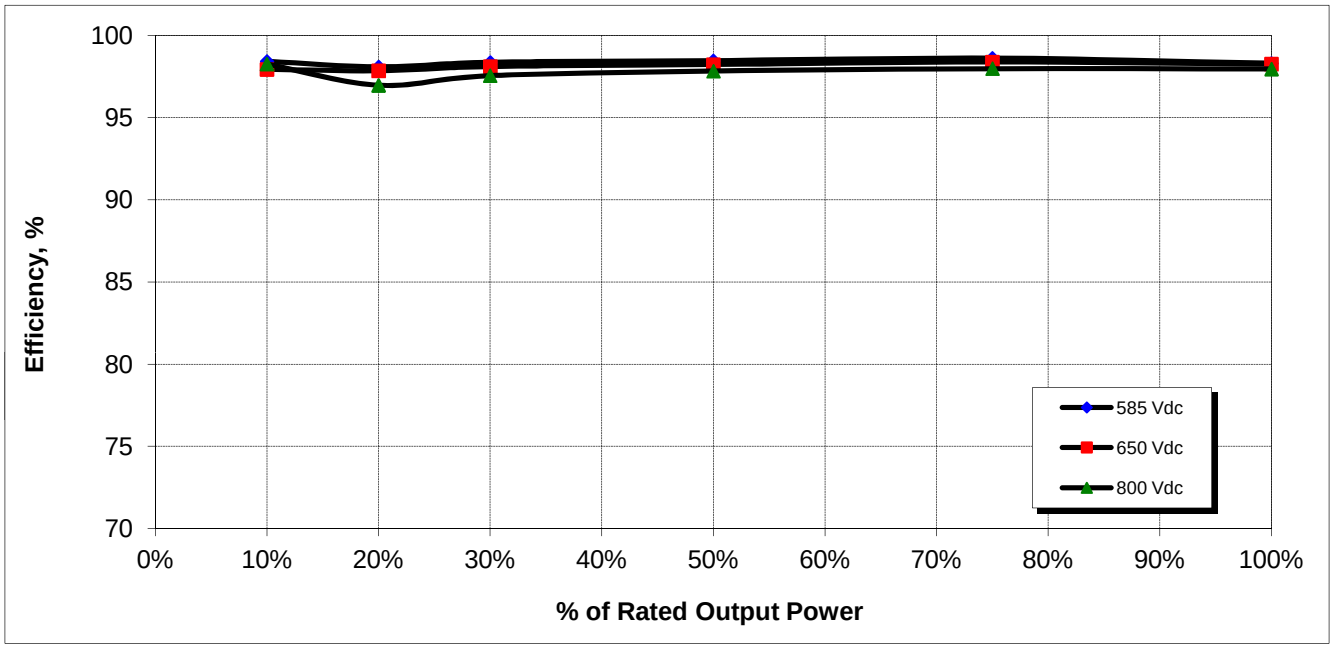
Model #: FS1050CU, FS1050PU

Rated Maximum Continuous Output Power: 1050.0 kW Night Tare Loss: 356 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		105.00	210.00	315.00	525.00	787.50	1050.00	Wtd
Vmin	585	98.41	98.08	98.36	98.46	98.61	98.30	98.50
Vnom	650	97.93	97.84	98.10	98.22	98.38	98.25	98.26
Vmax	800	98.25	96.96	97.55	97.83	97.98	97.95	97.86

Inverter Efficiency only = 98.0%



1100 kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		105.00	210.00	315.00	525.00	787.50	1050.00	Wtd
Vmin	545	97.35	98.69	99.03	99.10	98.90	98.59	98.87
Vnom	615	97.35	98.69	99.03	99.10	98.90	98.59	98.87
Vmax	800	97.35	98.69	99.03	99.10	98.90	98.59	98.87

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	104,341.67	585.13	98.47	104,317.00	585.16	98.47	104,343.00	585.14	98.47	416,660.20	684.48	98.07	104,351.33	585.23	98.47
20%	Vmin	210,955.00	584.80	98.19	210,999.33	584.78	98.13	210,861.00	584.81	98.05	210,968.00	584.81	98.05	210,920.67	584.81	98.04
30%	Vmin	315,877.00	585.13	98.32	315,470.00	585.17	98.33	315,634.00	585.13	98.35	315,596.67	585.16	98.42	315,762.00	585.12	98.42
50%	Vmin	525,903.67	585.88	98.28	525,533.67	585.95	98.36	526,462.67	585.93	98.52	526,215.67	585.90	98.52	526,611.00	585.89	98.52
75%	Vmin	788,046.00	585.30	98.61	787,436.00	585.33	98.61	788,089.67	585.33	98.61	787,632.00	585.35	98.61	788,107.00	585.35	98.61
100%	Vmin	1,051,020.00	585.34	98.43	1,050,343.33	585.31	98.44	1,050,540.00	585.34	98.44	1,050,830.00	585.36	98.44	1,050,420.00	585.34	98.44
10%	Vnom	103,962.67	800.97	97.93	103,965.33	800.96	97.93	103,978.67	800.95	97.93	103,928.67	800.95	97.93	103,982.33	800.94	97.93
20%	Vnom	210,995.33	650.44	97.71	210,982.00	650.43	97.81	211,482.67	650.47	97.95	211,274.33	650.44	97.94	211,563.67	650.46	97.90
30%	Vnom	315,727.00	650.86	98.10	315,624.67	650.87	98.10	315,999.00	650.88	98.10	315,657.67	650.89	98.09	315,640.33	650.92	98.10
50%	Vnom	525,275.67	650.73	98.33	525,051.67	650.71	98.15	526,547.67	650.72	98.17	525,857.33	650.73	98.33	526,213.00	650.73	98.34
75%	Vnom	788,537.67	650.37	98.33	787,578.67	650.42	98.42	788,769.33	650.42	98.30	788,665.67	650.42	98.42	788,852.33	650.41	98.34
100%	Vnom	1,050,086.67	650.37	98.31	1,050,260.00	650.35	98.13	1,050,680.00	650.34	98.14	1,049,550.00	650.35	98.30	1,049,496.67	650.38	98.30
10%	Vmax	104,168.00	650.00	98.30	104,156.67	650.02	98.30	104,161.00	650.03	98.30	104,177.33	650.00	98.30	104,138.00	649.97	98.31
20%	Vmax	210,590.33	820.61	97.18	211,001.33	820.54	96.23	211,045.00	820.61	96.68	210,946.33	820.58	97.10	210,766.00	820.56	97.18
30%	Vmax	316,077.67	820.09	97.56	315,754.33	820.13	97.55	315,671.67	820.12	97.55	315,396.00	820.14	97.55	315,321.00	820.10	97.55
50%	Vmax	526,634.33	820.61	97.84	526,448.33	820.85	97.84	525,795.33	820.84	97.83	526,293.33	820.92	97.83	525,317.67	820.90	97.83
75%	Vmax	788,136.67	820.59	98.03	788,417.00	820.58	98.03	788,414.33	820.58	98.03	787,878.33	820.57	98.03	788,299.33	820.56	98.03
100%	Vmax	1,050,153.33	820.90	97.96	1,050,673.33	820.87	97.95	1,051,256.67	820.84	97.96	1,050,476.67	820.85	97.95	1,051,250.00	820.86	97.95

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	104,315.67	585.19	98.47	104,296.00	585.19	98.47									
20%	Vmin	210,684.00	584.78	98.04	210,455.00	584.76	98.08									
30%	Vmin	315,220.00	585.12	98.34	315,122.00	585.09	98.32									
50%	Vmin	526,294.00	585.88	98.51	526,233.00	585.92	98.51									
75%	Vmin	787,426.33	585.38	98.59	788,629.00	585.35	98.61									
100%	Vmin	1,049,770.00	585.35	98.45	1,049,210.00	585.37	98.45									
10%	Vnom	103,953.33	800.94	97.93	103,976.00	800.93	97.94									
20%	Vnom	211,226.67	650.45	97.80	211,082.00	650.47	97.79									
30%	Vnom	315,713.00	650.92	98.10	315,486.00	650.89	98.10									
50%	Vnom	526,349.67	650.69	98.34	526,369.00	650.65	97.92									
75%	Vnom	788,938.33	650.48	98.43	787,271.00	650.53	98.43									
100%	Vnom	1,050,556.67	650.36	98.30	1,049,880.00	650.40	98.30									
10%	Vmax	104,161.67	649.97	98.31	104,175.00	649.98	98.30									
20%	Vmax	210,706.67	820.64	97.19	211,224.00	820.67	97.19									
30%	Vmax	315,603.00	820.11	97.56	316,123.00	820.14	97.55									
50%	Vmax	526,669.00	820.91	97.83	526,300.00	820.89	97.83									
75%	Vmax	788,798.67	820.61	98.03	787,665.00	820.68	97.68									
100%	Vmax	1,051,516.67	820.87	97.95	1,051,400.00	820.84	97.95									