Manufacturer: Power Electronics

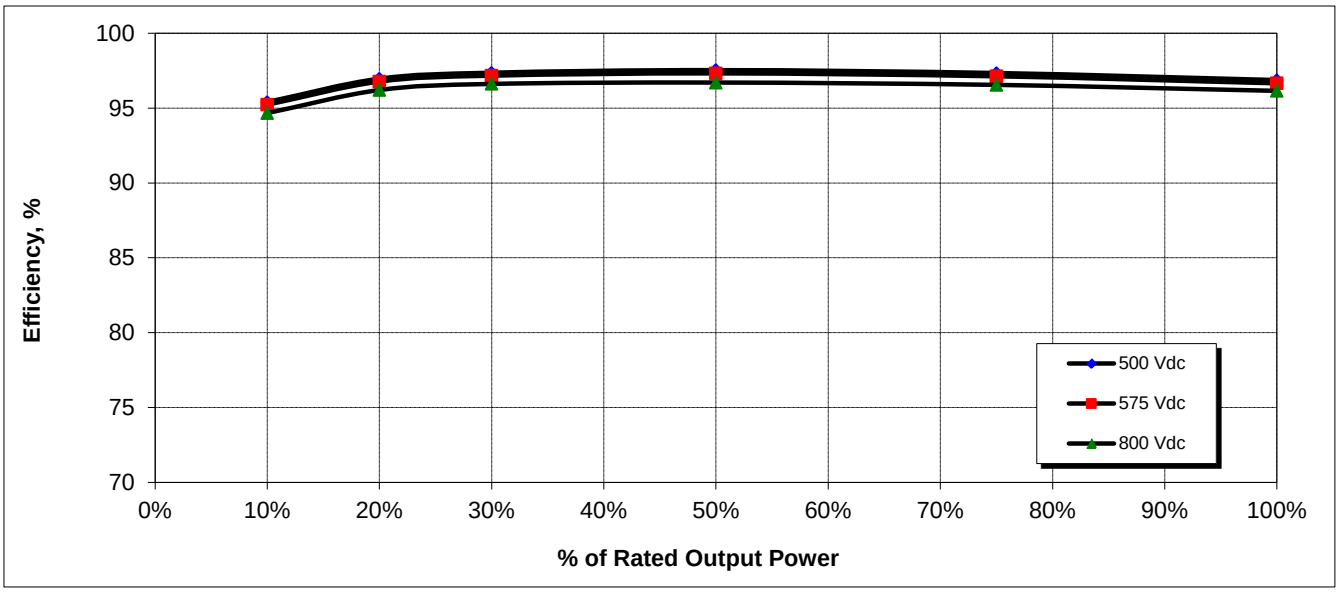
Model #: FS1001CU

Rated Maximum Continuous Output Power: 1000.0 kW Night Tare Loss: -616 W

Vmin: 500 Vdc Vnom: 575 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		100.00	200.00	300.00	500.00	750.00	1000.00	Wtd
Vmin	500	95.4	97.0	97.4	97.5	97.3	96.9	97.3
Vnom	575	95.2	96.8	97.2	97.3	97.1	96.7	97.1
Vmax	800	94.7	96.2	96.6	96.7	96.6	96.2	96.5

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



Manufacturer: Power Electronics

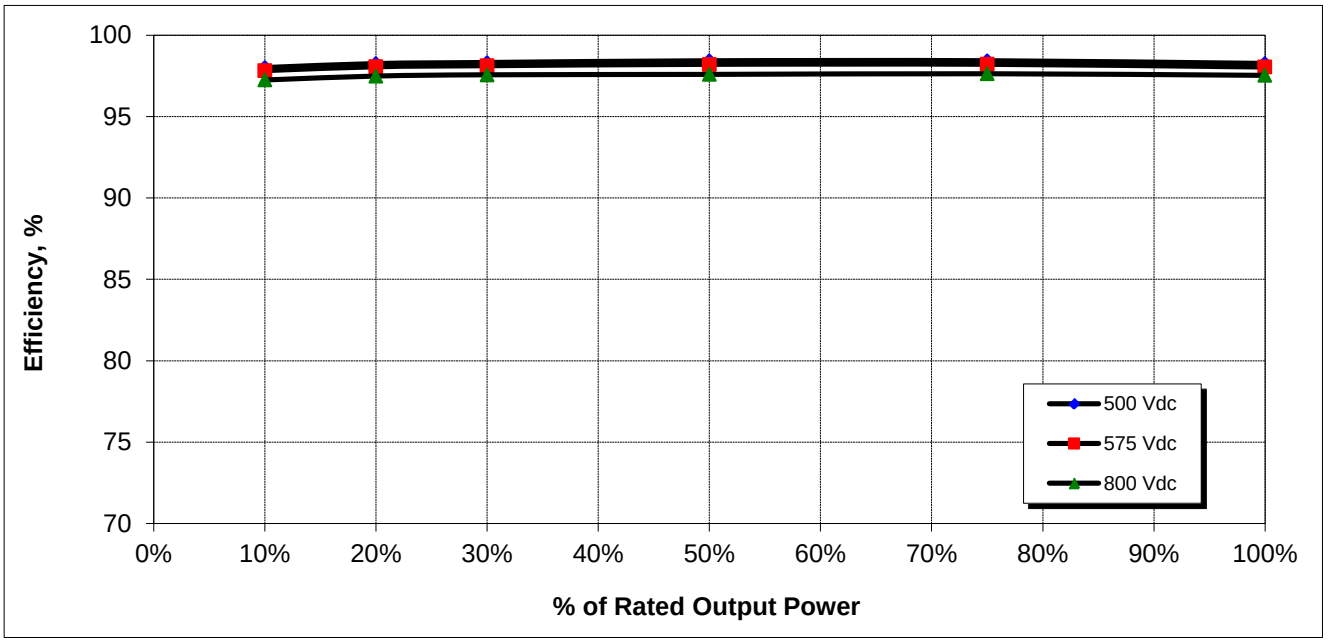
Model #: FS1001CU (330Vac)

Rated Maximum Continuous Output Power: 1000.0 kW Night Tare Loss: -616 W

Vmin: 500 Vdc Vnom: 575 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		100.00	200.00	300.00	500.00	750.00	1000.00	Wtd
Vmin	500	98.0	98.3	98.3	98.4	98.4	98.3	98.4
Vnom	575	97.8	98.1	98.1	98.2	98.2	98.0	98.2
Vmax	800	97.2	97.5	97.6	97.6	97.6	97.5	97.6

Inverter Efficiency only = 98.0%



1000KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		100.00	200.00	300.00	500.00	750.00	1000.00	Wtd
Vmin	500	97.35	98.69	99.03	99.1	98.9	98.59	98.87
Vnom	575	97.35	98.69	99.03	99.1	98.9	98.59	98.87
Vmax	800	97.35	98.69	99.03	99.1	98.9	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	98015.1	500.2	98.0	98285.9	500.2	98.0	98466.5	500.2	98.0	98207.9	500.2	98.0	98212.6	500.2	98.0
20%	Vmin	207134.0	501.0	98.2	207784.3	500.9	98.2	208320.7	500.9	98.3	208397.3	500.9	98.3	208294.3	501.0	98.3
30%	Vmin	302681.3	500.8	98.3	303159.3	500.8	98.3	302869.7	500.8	98.3	302993.0	500.8	98.3	302929.7	500.8	98.3
50%	Vmin	508257.0	500.4	98.4	508244.0	500.4	98.4	508466.0	500.4	98.4	508509.7	500.5	98.4	508450.3	500.4	98.4
75%	Vmin	755567.3	500.8	98.4	754979.7	500.8	98.4	755495.3	500.8	98.4	755574.3	500.8	98.4	755672.7	500.8	98.4
100%	Vmin	1008190.0	500.2	98.3	1008536.7	500.2	98.3	1007080.0	500.2	98.3	1007540.0	500.2	98.3	1007493.3	500.3	98.3
10%	Vnom	98440.3	575.7	97.8	98418.1	575.7	97.8	98176.6	575.7	97.8	98395.5	575.7	97.8	98151.6	575.7	97.8
20%	Vnom	207478.0	575.5	98.0	208035.3	575.5	98.1	208070.7	575.5	98.1	207897.0	575.5	98.1	207749.0	575.5	98.1
30%	Vnom	303087.7	575.4	98.1	302854.3	575.4	98.1	302713.3	575.4	98.1	302737.3	575.4	98.1	303157.0	575.3	98.1
50%	Vnom	507089.0	575.1	98.2	506695.3	575.1	98.2	507803.0	575.1	98.2	507243.3	575.1	98.2	507842.7	575.0	98.2
75%	Vnom	754114.0	575.5	98.2	754558.7	575.6	98.2	755157.3	575.6	98.2	755736.0	575.6	98.2	755871.3	575.5	98.2
100%	Vnom	1006643.3	575.1	98.0	1005910.0	575.2	98.0	1006366.7	575.2	98.0	1006063.3	575.2	98.0	1005740.0	575.2	98.0
10%	Vmax	97983.7	800.8	97.3	98044.4	800.8	97.2	98023.6	800.7	97.2	98223.8	800.8	97.2	97966.3	800.8	97.2
20%	Vmax	206332.7	801.7	97.5	206360.3	801.7	97.5	206331.7	801.7	97.5	205994.0	801.7	97.5	205978.0	801.7	97.5
30%	Vmax	301728.3	800.7	97.6	301821.7	800.7	97.6	302086.0	800.7	97.6	302080.7	800.7	97.6	302162.7	800.7	97.6
50%	Vmax	505175.7	800.4	97.6	505348.7	800.4	97.6	505471.0	800.5	97.6	506355.7	800.4	97.6	505340.7	800.4	97.6
75%	Vmax	751594.0	800.2	97.6	752094.3	800.2	97.6	751545.7	800.2	97.6	753210.7	800.2	97.6	751911.7	800.1	97.6
100%	Vmax	1003510.0	800.9	97.5	1002483.3	801.0	97.5	1002913.3	800.9	97.5	1002846.7	801.0	97.5	1002576.7	800.9	97.5

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	98490.2	500.2	98.0	98066.9	500.2	98.0									
20%	Vmin	208395.3	500.9	98.3	208459.3	501.0	98.3									
30%	Vmin	302768.3	500.8	98.3	302854.3	500.8	98.3									
50%	Vmin	508159.7	500.3	98.4	507419.7	500.4	98.4									
75%	Vmin	755613.0	500.7	98.4	755458.3	500.8	98.4									
100%	Vmin	1007160.0	500.3	98.3	1008280.0	500.2	98.3									
10%	Vnom	98252.8	575.7	97.8	98077.8	575.7	97.8									
20%	Vnom	208105.7	575.5	98.1	208289.0	575.5	98.1									
30%	Vnom	302714.0	575.4	98.1	302579.0	575.3	98.1									
50%	Vnom	507353.7	575.0	98.2	507638.0	575.1	98.2									
75%	Vnom	755198.3	575.5	98.2	756074.0	575.5	98.2									
100%	Vnom	1006086.7	575.2	98.0	1006920.0	575.2	98.0									
10%	Vmax	97851.9	800.7	97.3	97699.9	800.7	97.2									
20%	Vmax	206235.0	801.7	97.5	206336.3	801.7	97.5									
30%	Vmax	301800.7	800.6	97.6	302232.3	800.6	97.5									
50%	Vmax	505192.7	800.4	97.6	506543.3	800.4	97.6									
75%	Vmax	751525.7	800.2	97.6	751824.7	800.0	97.6									
100%	Vmax	1003230.0	800.9	97.5	1003206.7	800.8	97.5									