Manufacturer: Power Electronics

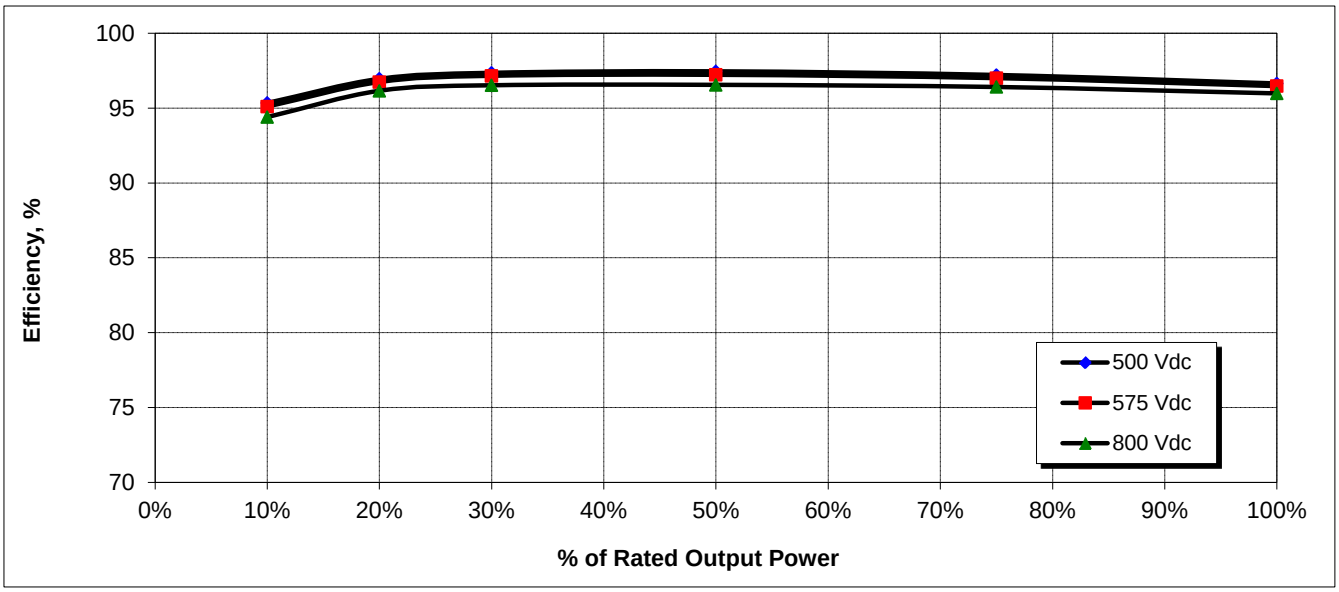
Model #: FS1290CU (330Vac)

Rated Maximum Continuous Output Power: 1290.0 kW Night Tare Loss: -603 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		129.00	258.00	387.00	645.00	967.50	1290.00	Wtd
Vmin	500	95.3	97.0	97.4	97.5	97.2	96.6	97.2
Vnom	575	95.1	96.7	97.2	97.2	97.0	96.5	97.0
Vmax	800	94.4	96.2	96.5	96.6	96.4	96.0	96.3

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



Manufacturer: Power Electronics

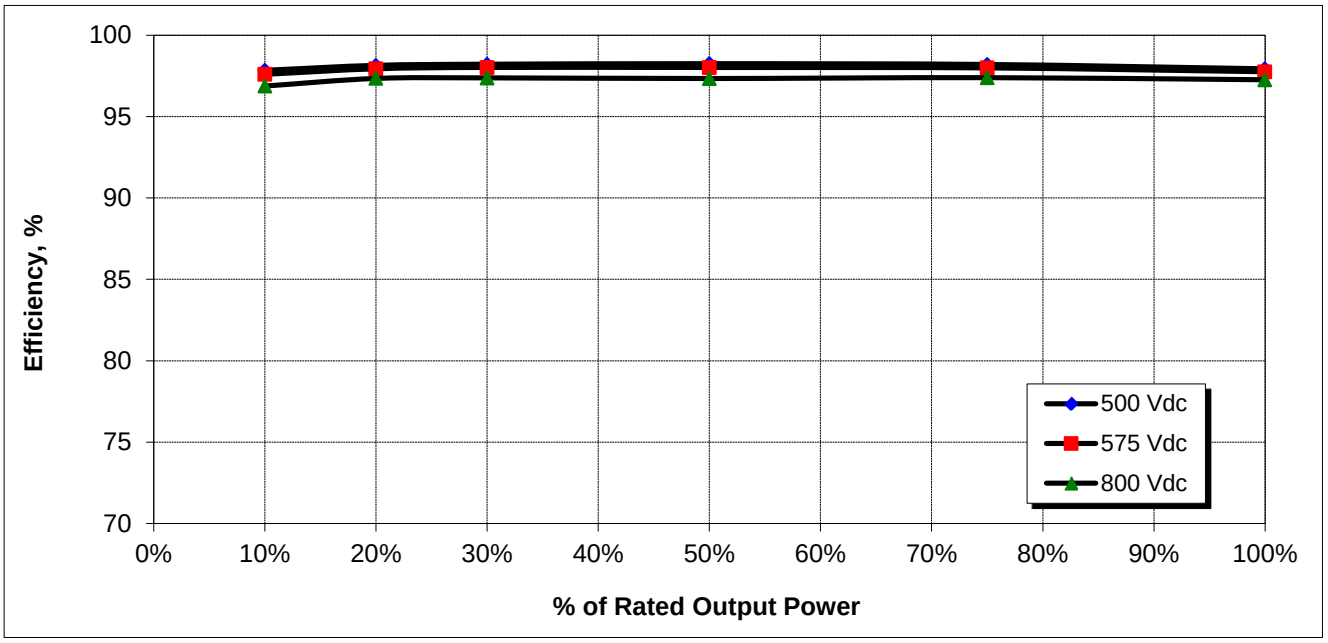
Model #: FS1290CU (330Vac)

Rated Maximum Continuous Output Power: 1290.0 kW Night Tare Loss: -603 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		129.00	258.00	387.00	645.00	967.50	1290.00	Wtd
Vmin	500	97.8	98.1	98.2	98.2	98.2	97.9	98.2
Vnom	575	97.6	97.9	98.0	98.0	98.0	97.8	98.0
Vmax	800	96.9	97.3	97.4	97.3	97.4	97.3	97.3

Inverter Efficiency only = 98.0%



1290KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		129.00	258.00	387.00	645.00	967.50	1290.00	Wtd
Vmin	605	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vnom	655	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	125561.0	500.9	97.8	125786.3	500.9	97.8	125754.7	501.0	97.8	125932.0	500.9	97.8	126148.7	500.9	97.8
20%	Vmin	258083.3	500.6	98.1	258352.0	500.6	98.1	258040.0	500.7	98.1	258669.3	500.7	98.2	258342.7	500.7	98.1
30%	Vmin	387219.3	500.4	98.2	387593.3	500.4	98.2	388226.3	500.4	98.2	388582.7	500.4	98.2	387618.3	500.5	98.2
50%	Vmin	644195.3	500.9	98.2	643785.0	500.9	98.2	643551.3	500.9	98.2	643566.7	500.9	98.3	645263.0	500.8	98.2
75%	Vmin	966434.7	501.1	98.2	969323.7	501.0	98.2	967576.3	501.0	98.2	967646.3	501.0	98.2	967349.3	501.0	98.2
100%	Vmin	1283703.3	500.9	97.9	1283730.0	500.9	97.9	1283643.3	500.9	97.9	1283223.3	501.0	97.9	1284146.7	500.9	97.9
10%	Vnom	125615.3	575.3	97.6	125477.0	575.4	97.6	125841.0	575.3	97.6	125581.7	575.3	97.6	125618.7	575.3	97.6
20%	Vnom	258534.7	576.2	97.9	258504.0	576.1	97.9	258483.3	576.2	97.9	257998.0	576.1	97.9	257974.7	576.1	97.9
30%	Vnom	386495.0	575.9	98.0	386369.7	575.9	98.0	387524.0	575.9	98.0	388258.0	575.9	98.0	388065.7	576.0	98.0
50%	Vnom	642135.7	575.5	98.0	642830.3	575.4	98.0	643465.7	575.4	98.0	641507.7	575.5	98.0	643143.0	575.4	98.0
75%	Vnom	966501.3	575.7	98.0	965476.0	575.7	98.0	968359.0	575.6	98.0	967211.3	575.6	98.0	966038.7	575.8	98.0
100%	Vnom	1282380.0	575.8	97.7	1282163.3	575.8	97.7	1281853.3	575.8	97.8	1281853.3	575.8	97.8	1282146.7	575.8	97.8
10%	Vmax	125263.7	799.5	96.8	125027.0	799.5	96.9	125218.3	799.4	96.9	125485.0	799.4	96.9	125077.7	799.4	96.9
20%	Vmax	257125.0	799.2	97.4	257192.3	799.2	97.3	257084.0	799.3	97.3	257229.7	799.3	97.3	257404.3	799.3	97.3
30%	Vmax	386133.0	799.2	97.4	385508.0	799.2	97.4	387048.3	799.2	97.4	386033.3	799.2	97.4	385327.7	799.2	97.4
50%	Vmax	639128.0	799.8	97.3	640629.7	799.7	97.3	640549.3	799.8	97.3	639537.0	799.8	97.3	641186.7	799.8	97.3
75%	Vmax	961924.3	799.2	97.4	961711.7	799.3	97.4	963542.3	799.1	97.4	962340.0	799.2	97.4	962984.3	799.2	97.4
100%	Vmax	1278963.3	799.5	97.3	1276760.0	799.6	97.3	1280053.3	799.5	97.3	1279230.0	799.6	97.3	1277476.7	799.6	97.3

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	126133.0	500.9	97.8	125983.3	500.9	97.8									
20%	Vmin	258203.3	500.7	98.2	258672.3	500.6	98.2									
30%	Vmin	387567.7	500.4	98.2	387769.7	500.4	98.2									
50%	Vmin	644417.3	500.9	98.3	643437.3	500.9	98.2									
75%	Vmin	968565.7	501.0	98.2	967148.3	501.1	98.2									
100%	Vmin	1282146.7	501.0	97.9	1283190.0	500.9	97.9									
10%	Vnom	125571.3	575.3	97.6	125912.3	575.3	97.6									
20%	Vnom	257853.0	576.0	97.9	257751.7	576.1	97.9									
30%	Vnom	387031.3	576.0	98.0	386454.3	575.9	98.0									
50%	Vnom	643330.3	575.5	98.0	641473.3	575.5	98.0									
75%	Vnom	967000.0	575.7	98.0	965596.0	575.7	98.0									
100%	Vnom	1282446.7	575.7	97.8	1282410.0	575.7	97.8									
10%	Vmax	125533.3	799.4	96.9	125270.7	799.4	96.9									
20%	Vmax	257150.7	799.4	97.3	257378.7	799.4	97.3									
30%	Vmax	386392.0	799.2	97.4	385920.0	799.1	97.4									
50%	Vmax	638928.0	799.9	97.3	641243.7	799.8	97.3									
75%	Vmax	962598.7	799.2	97.4	961236.0	799.3	97.4									
100%	Vmax	1279010.0	799.6	97.3	1279476.7	799.5	97.3									