Manufacturer: Power Electronics

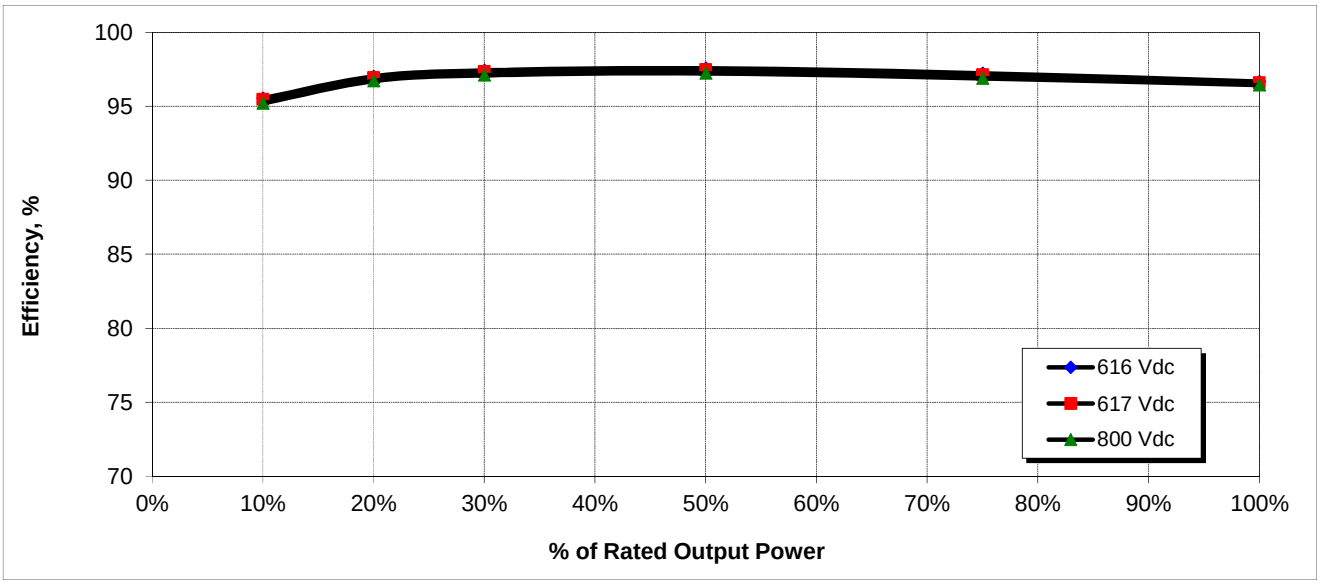
Model #: FS1140CU (420Vac)

Rated Maximum Continuous Output Power: 1270.0 kW Night Tare Loss: -296 W

Vmin: 616 Vdc Vnom: 617 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		127.00	254.00	381.00	635.00	952.50	1270.00	Wtd
Vmin	616	95.6	97.0	97.4	97.6	97.2	96.7	97.2
Vnom	617	95.5	96.9	97.3	97.5	97.1	96.6	97.1
Vmax	800	95.2	96.7	97.1	97.2	96.9	96.4	96.9

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



Manufacturer: Power Electronics

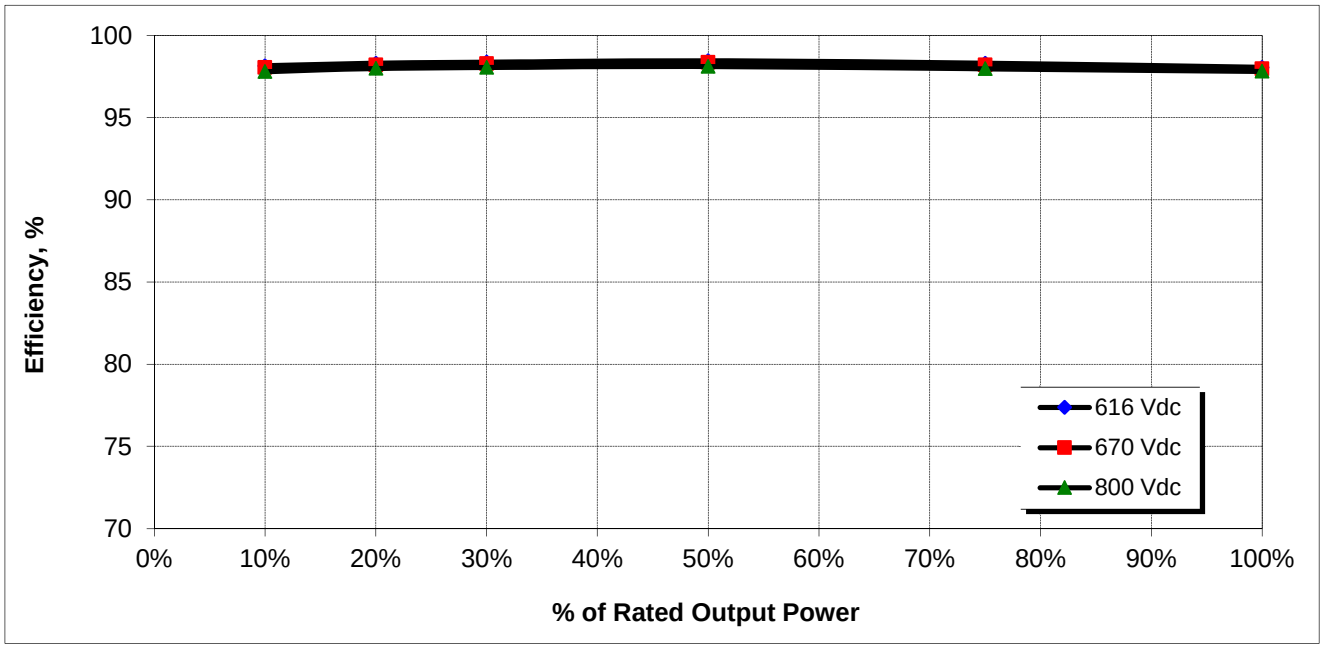
Model #: FS1140CU (420Vac)

Rated Maximum Continuous Output Power: 1270.0 kW Night Tare Loss: -296 W

Vmin: 616 Vdc Vnom: 670 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		127.00	254.00	381.00	635.00	952.50	1270.00	Wtd
Vmin	616	98.2	98.3	98.4	98.5	98.3	98.1	98.3
Vnom	670	98.1	98.2	98.3	98.4	98.2	98.0	98.2
Vmax	800	97.8	98.0	98.1	98.1	98.0	97.8	98.0

Inverter Efficiency only = 98.0%



1270KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		127.00	254.00	381.00	635.00	952.50	1270.00	Wtd
Vmin	616	97.35	98.69	99.03	99.10	98.90	98.59	98.87
Vnom	670	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	123758.0	616.0	98.2	123720.3	616.0	98.2	123955.0	616.0	98.2	123992.7	616.0	98.2	123728.3	616.1	98.2
20%	Vmin	257326.0	617.9	98.3	258069.0	617.9	98.3	257581.3	617.9	98.3	257717.3	617.9	98.3	257663.7	617.9	98.3
30%	Vmin	387956.7	616.8	98.4	389777.7	616.8	98.4	388045.3	616.8	98.4	388667.3	616.8	98.4	388816.7	616.8	98.4
50%	Vmin	646014.0	616.2	98.5	644052.0	616.4	98.5	642617.0	616.4	98.5	644810.0	616.4	98.5	645669.7	616.3	98.5
75%	Vmin	962815.3	616.0	98.3	962113.3	616.0	98.3	960502.7	616.1	98.3	961829.0	616.0	98.3	962252.0	616.1	98.3
100%	Vmin	1282136.7	616.7	98.1	1275426.7	616.7	98.1	1275030.0	616.7	98.1	1275710.0	616.7	98.1	1276800.0	616.7	98.1
10%	Vnom	123321.0	670.1	98.1	123814.3	670.1	98.1	123759.7	670.1	98.1	123634.0	670.1	98.0	123592.3	670.1	98.1
20%	Vnom	257353.3	671.1	98.2	258111.0	671.0	98.2	257316.7	671.0	98.2	257593.0	671.1	98.2	257345.7	671.1	98.2
30%	Vnom	389867.7	670.9	98.3	389866.7	670.8	98.3	388810.0	670.9	98.3	388849.3	670.9	98.3	388382.0	670.8	98.3
50%	Vnom	640932.0	670.3	98.4	641756.7	670.4	98.4	641081.7	670.4	98.4	642452.0	670.3	98.4	644144.7	670.4	98.4
75%	Vnom	960326.7	670.2	98.2	960910.3	670.2	98.2	961136.7	670.2	98.2	961005.7	670.1	98.2	958282.0	670.1	98.2
100%	Vnom	1270753.3	670.9	98.0	1273720.0	670.9	98.0	1272786.7	670.9	98.0	1273086.7	670.9	98.0	1275406.7	670.9	98.0
10%	Vmax	123659.7	800.7	97.8	123700.7	800.7	97.8	123935.7	800.7	97.8	123623.0	800.7	97.8	123593.3	800.7	97.8
20%	Vmax	257691.0	800.7	98.0	257066.3	800.6	98.0	257031.7	800.7	98.0	258079.7	800.7	98.0	256908.7	800.7	98.0
30%	Vmax	388507.7	800.5	98.0	388654.7	800.5	98.0	388224.7	800.5	98.0	389778.7	800.5	98.1	389113.0	800.5	98.1
50%	Vmax	640804.3	800.8	98.1	642738.7	800.8	98.1	643721.3	800.8	98.1	642319.7	800.8	98.1	640635.7	800.9	98.1
75%	Vmax	957047.7	800.7	98.0	960362.7	800.6	98.0	956317.0	800.7	98.0	958075.0	800.7	98.0	959675.0	800.7	98.0
100%	Vmax	1250983.3	800.6	97.8	1251953.3	800.6	97.8	1251646.7	800.6	97.8	1253656.7	800.5	97.8	1251710.0	800.6	97.8

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	124021.7	616.0	98.2	123747.7	616.0	98.1									
20%	Vmin	257986.3	617.9	98.3	257036.7	617.9	98.3									
30%	Vmin	388005.3	616.8	98.4	388289.7	616.9	98.4									
50%	Vmin	644516.3	616.4	98.5	645398.7	616.4	98.5									
75%	Vmin	962212.0	616.0	98.3	961054.3	616.0	98.3									
100%	Vmin	1275213.3	616.7	98.1	1275890.0	616.8	98.1									
10%	Vnom	123280.3	670.1	98.1	123767.0	670.1	98.1									
20%	Vnom	258003.0	671.1	98.2	257412.7	671.1	98.2									
30%	Vnom	389953.0	670.9	98.3	389779.7	670.9	98.3									
50%	Vnom	641132.3	670.4	98.4	643112.7	670.3	98.4									
75%	Vnom	959576.3	670.1	98.2	961397.3	670.2	98.2									
100%	Vnom	1273070.0	670.9	98.0	1273236.7	670.9	98.0									
10%	Vmax	123745.3	800.7	97.8	123645.3	800.7	97.8									
20%	Vmax	257209.3	800.6	98.0	257396.7	800.7	98.0									
30%	Vmax	388857.7	800.5	98.1	387829.0	800.5	98.0									
50%	Vmax	642311.7	800.8	98.1	641487.3	800.8	98.1									
75%	Vmax	959110.0	800.7	98.0	959249.7	800.8	98.0									
100%	Vmax	1252476.7	800.6	97.8	1252490.0	800.5	97.8									