Manufacturer: Power Electronics

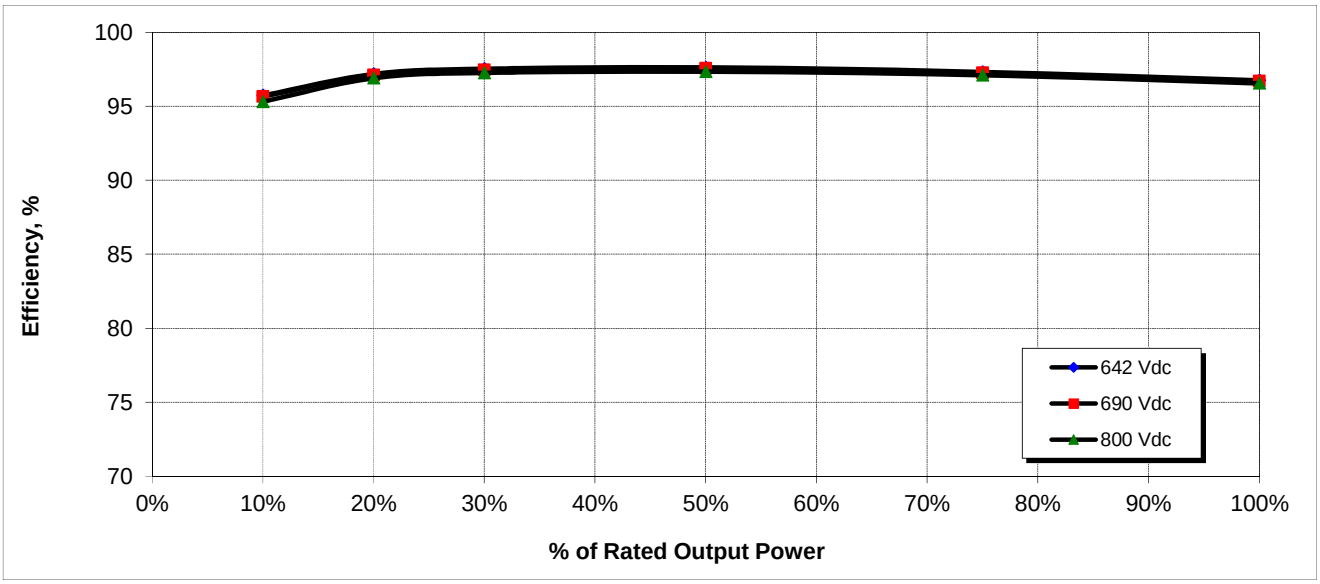
Model #: FS1770CU (440Vac)

Rated Maximum Continuous Output Power: 1770.0 kW Night Tare Loss: -351 W

Vmin: 642 Vdc Vnom: 690 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		177.00	354.00	531.00	885.00	1327.50	1770.00	Wtd
Vmin	642	95.7	97.2	97.5	97.6	97.3	96.8	97.3
Vnom	690	95.7	97.1	97.5	97.6	97.3	96.7	97.2
Vmax	800	95.3	96.9	97.3	97.3	97.1	96.6	97.1

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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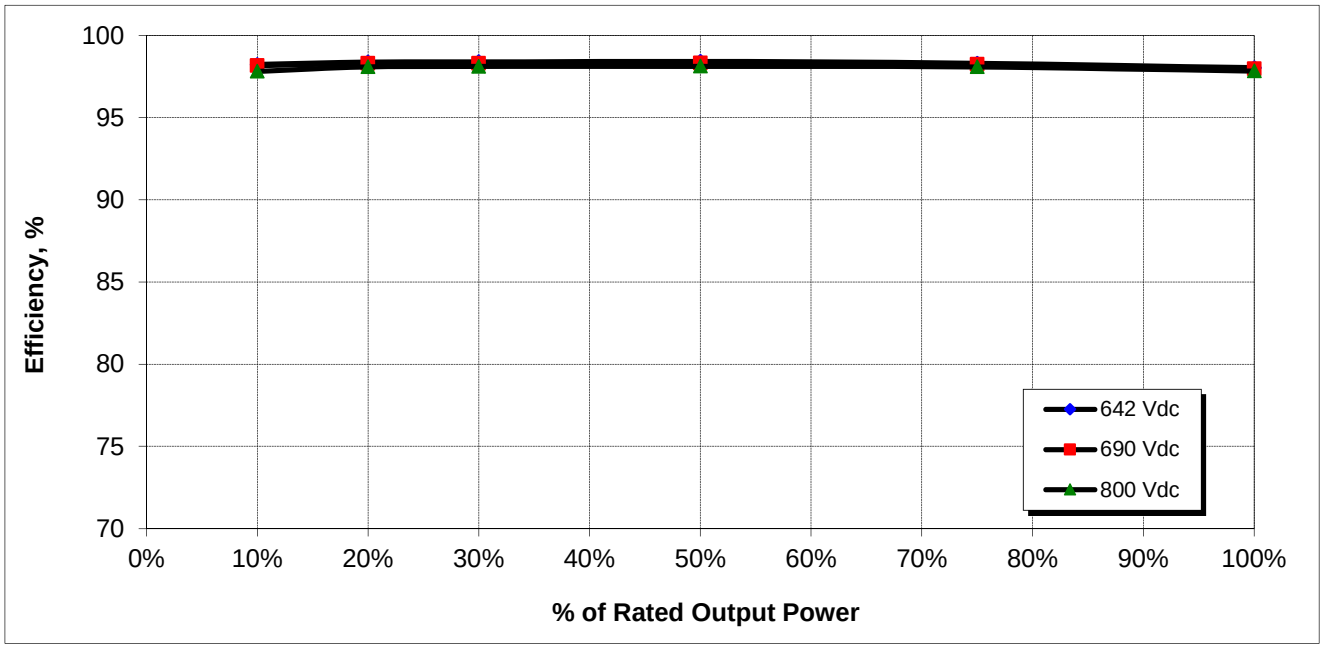
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		177.00	354.00	531.00	885.00	1327.50	1770.00	Wtd
Vmin	642	98.2	98.4	98.4	98.4	98.3	98.0	98.3
Vnom	690	98.2	98.3	98.3	98.3	98.3	98.0	98.3
Vmax	800	97.8	98.1	98.1	98.1	98.1	97.8	98.1

Inverter Efficiency only = 98.0%



1770KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		177.00	354.00	531.00	885.00	1327.50	1770.00	Wtd
Vmin	642	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vnom	690	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	170482.0	642.1	98.1	170209.3	642.1	98.1	170229.7	642.1	98.1	171090.0	642.1	98.3	170354.0	642.1	98.4
20%	Vmin	364596.7	642.9	98.4	364843.3	642.9	98.4	363186.0	642.9	98.4	364585.3	642.9	98.4	366117.0	642.9	98.4
30%	Vmin	545653.7	642.9	98.4	545550.3	642.9	98.4	547080.3	642.8	98.4	544846.3	642.9	98.4	549000.7	642.8	98.4
50%	Vmin	889140.7	642.5	98.4	891909.3	642.6	98.4	886539.0	642.7	98.4	889173.0	642.6	98.4	885446.7	642.7	98.4
75%	Vmin	1353370.0	642.1	98.3	1352000.0	642.2	98.3	1350930.0	642.1	98.3	1354523.3	642.2	98.3	1349480.0	642.2	98.3
100%	Vmin	1792203.3	642.9	98.0	1792990.0	642.9	98.0	1790100.0	642.9	98.0	1792920.0	642.9	98.0	1793940.0	643.0	98.0
10%	Vnom	170697.0	690.5	98.0	171548.7	690.5	98.1	171528.7	690.5	98.2	171524.7	690.5	98.3	171251.0	690.5	98.3
20%	Vnom	363975.7	690.4	98.3	363396.3	690.4	98.3	366395.3	690.4	98.3	364364.7	690.4	98.3	366046.0	690.4	98.3
30%	Vnom	543560.0	690.3	98.3	545367.7	690.4	98.3	545379.0	690.3	98.3	544709.7	690.4	98.3	542280.3	690.4	98.3
50%	Vnom	891299.3	691.0	98.3	889410.0	691.1	98.3	890828.0	691.0	98.3	890280.7	691.0	98.3	888317.3	691.0	98.3
75%	Vnom	1346566.7	690.6	98.2	1351753.3	690.5	98.2	1350286.7	690.6	98.2	1345153.3	690.6	98.2	1349050.0	690.6	98.3
100%	Vnom	1790483.3	690.9	98.0	1788470.0	690.8	98.0	1791840.0	690.8	98.0	1788820.0	690.8	98.0	1792326.7	690.8	98.0
10%	Vmax	171067.3	800.7	97.8	171366.7	800.7	97.8	170437.7	800.6	97.8	170512.0	800.7	97.8	171863.3	800.6	97.8
20%	Vmax	365359.3	800.7	98.1	364796.3	800.6	98.1	366231.7	800.7	98.1	364339.3	800.6	98.1	365109.0	800.6	98.1
30%	Vmax	545115.7	800.6	98.1	541849.3	800.5	98.1	546804.0	800.5	98.1	547847.7	800.6	98.1	543323.3	800.6	98.1
50%	Vmax	892491.7	801.2	98.1	893248.3	801.2	98.1	886714.0	801.3	98.1	890040.0	801.2	98.1	891270.3	801.2	98.1
75%	Vmax	1334966.7	801.0	98.1	1346353.3	800.9	98.1	1345230.0	800.9	98.1	1352010.0	800.8	98.1	1347973.3	800.8	98.1
100%	Vmax	1787296.7	800.3	97.8	1786160.0	800.5	97.8	1784940.0	800.4	97.8	1783270.0	800.4	97.8	1788066.7	800.3	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	172108.7	642.0	98.4	170664.0	642.1	98.2									
20%	Vmin	366283.0	642.9	98.4	365717.7	642.9	98.4									
30%	Vmin	547903.0	642.8	98.4	544812.7	642.8	98.4									
50%	Vmin	891392.0	642.6	98.4	891219.0	642.6	98.4									
75%	Vmin	1351066.7	642.1	98.3	1352030.0	642.2	98.3									
100%	Vmin	1792033.3	643.0	98.0	1792490.0	642.9	98.0									
10%	Vnom	171747.0	690.4	98.2	170950.7	690.5	98.1									
20%	Vnom	366274.3	690.3	98.3	367463.3	690.3	98.3									
30%	Vnom	545733.3	690.4	98.3	543840.7	690.4	98.3									
50%	Vnom	894057.3	691.0	98.3	889164.7	691.1	98.3									
75%	Vnom	1341873.3	690.7	98.3	1349530.0	690.5	98.3									
100%	Vnom	1791890.0	690.9	98.0	1789930.0	690.8	98.0									
10%	Vmax	169854.3	800.7	97.8	170400.7	800.7	97.8									
20%	Vmax	366178.0	800.6	98.1	365706.3	800.6	98.1									
30%	Vmax	542337.3	800.5	98.1	543989.7	800.6	98.1									
50%	Vmax	889349.7	801.2	98.1	893750.0	801.2	98.1									
75%	Vmax	1347656.7	800.9	98.1	1350423.3	800.8	98.1									
100%	Vmax	1786930.0	800.3	97.8	1787013.3	800.3	97.8									