Manufacturer: Power Electronics

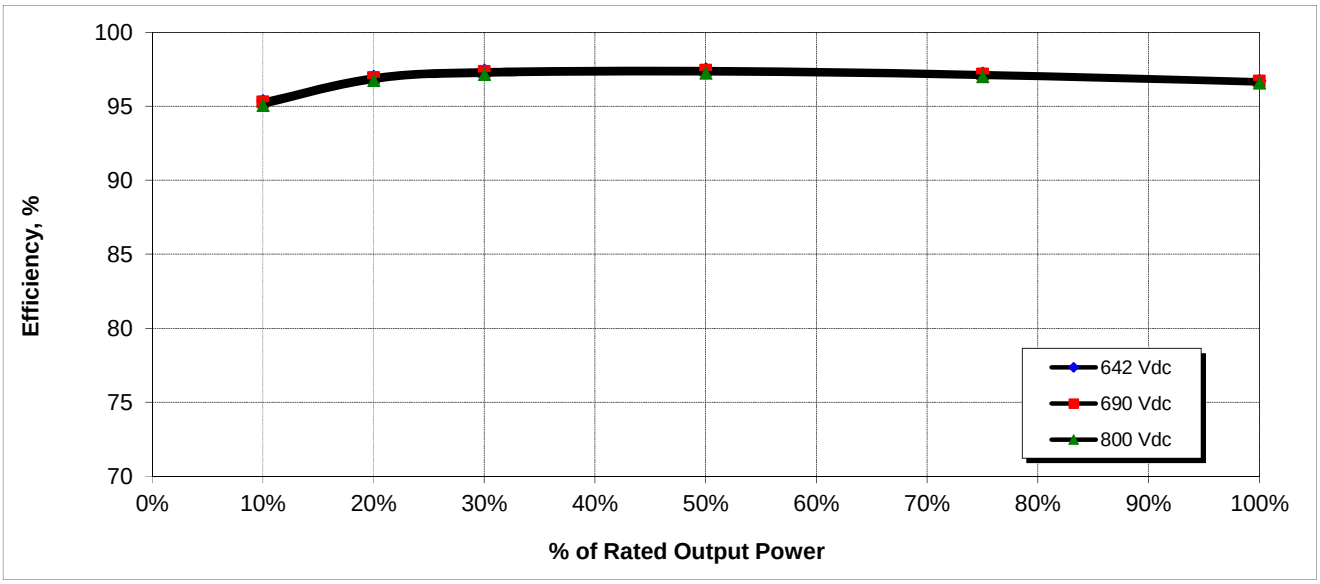
Model #: FS1112CU (440Vac)

Rated Maximum Continuous Output Power: 1110.0 kW Night Tare Loss: -281 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		111.00	222.00	333.00	555.00	832.50	1110.00	Wtd
Vmin	642	95.4	97.0	97.4	97.5	97.2	96.7	97.2
Vnom	690	95.3	96.9	97.4	97.4	97.2	96.7	97.1
Vmax	800	95.1	96.7	97.1	97.2	97.0	96.6	97.0

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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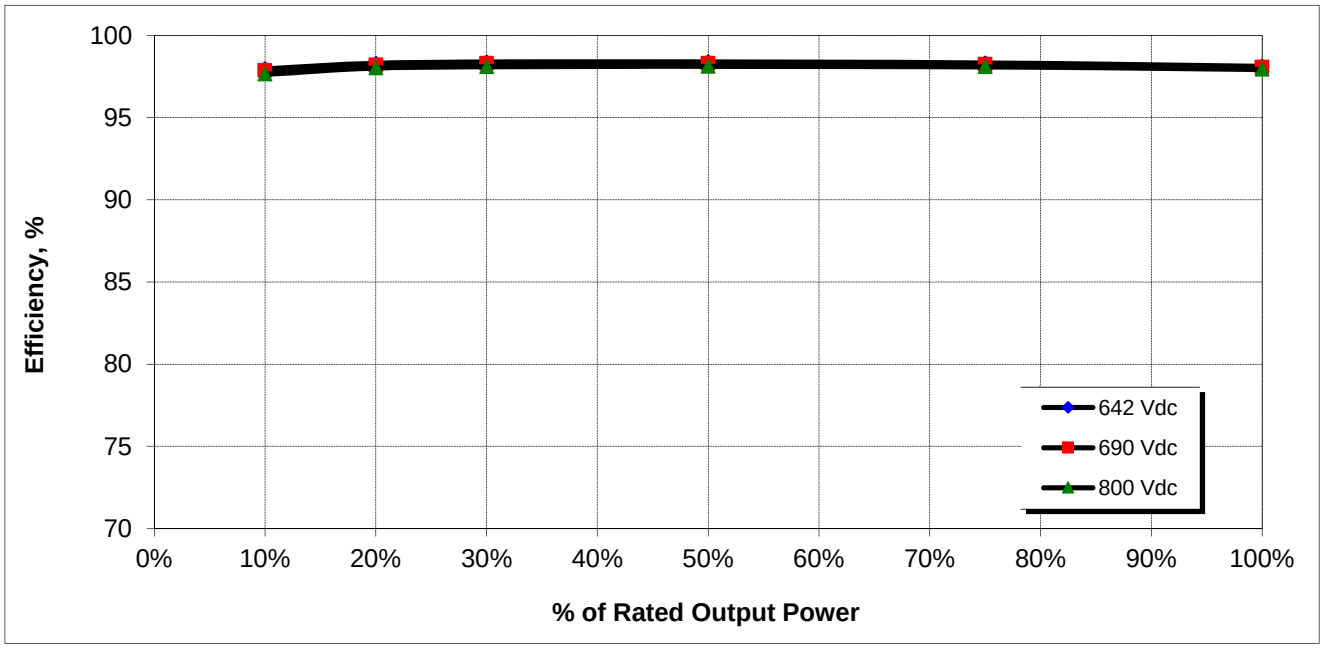
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		111.00	222.00	333.00	555.00	832.50	1110.00	Wtd
Vmin	642	98.0	98.3	98.4	98.4	98.3	98.1	98.3
Vnom	690	97.9	98.2	98.3	98.3	98.2	98.1	98.2
Vmax	800	97.6	98.0	98.1	98.1	98.1	97.9	98.1

Inverter Efficiency only = 98.0%



1110KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		111.00	222.00	333.00	555.00	832.50	1110.00	Wtd
Vmin	642	97.35	98.69	99.03	99.10	98.90	98.59	98.87
Vnom	690	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	100838.3	642.6	98.0	100972.0	642.5	98.0	101021.3	642.5	98.0	101053.3	642.5	98.0	100652.3	642.5	98.0
20%	Vmin	224624.0	642.5	98.3	226027.0	642.5	98.3	225721.3	642.5	98.3	224755.3	642.6	98.3	225795.0	642.5	98.3
30%	Vmin	334396.0	642.6	98.4	336615.3	642.6	98.4	337252.0	642.5	98.4	334572.3	642.5	98.4	335013.3	642.6	98.4
50%	Vmin	560720.0	642.6	98.4	558962.3	642.5	98.4	561634.7	642.5	98.4	561006.0	642.5	98.4	560067.7	642.4	98.4
75%	Vmin	833312.3	642.4	98.3	828785.0	642.3	98.3	833779.7	642.3	98.3	829574.0	642.4	98.3	833228.3	642.3	98.3
100%	Vmin	1112063.3	642.0	98.1	1109393.3	642.1	98.1	1110976.7	642.1	98.1	1113966.7	642.1	98.1	1107823.3	642.1	98.1
10%	Vnom	100670.3	691.0	97.9	100875.3	690.9	97.9	101000.3	690.9	97.9	100516.0	691.0	97.9	101151.7	690.9	97.9
20%	Vnom	225171.0	691.0	98.2	224355.3	691.0	98.2	225066.3	691.1	98.2	224741.0	690.9	98.2	224723.7	691.0	98.2
30%	Vnom	334912.3	691.1	98.3	336248.0	691.0	98.3	334491.7	691.0	98.3	336083.7	690.9	98.3	336154.3	691.0	98.3
50%	Vnom	557697.3	691.0	98.3	558597.3	690.9	98.3	557522.7	690.9	98.3	558571.7	690.9	98.3	559033.3	690.9	98.3
75%	Vnom	832247.7	690.7	98.2	834051.7	690.7	98.3	832930.0	690.8	98.3	833584.3	690.7	98.2	831842.7	690.7	98.3
100%	Vnom	1109240.0	690.5	98.1	1108956.7	690.4	98.1	1109606.7	690.5	98.1	1110663.3	690.5	98.1	1110876.7	690.6	98.1
10%	Vmax	100728.0	801.1	97.7	100570.3	801.1	97.6	100830.3	801.1	97.6	100470.0	801.1	97.6	100931.7	801.1	97.6
20%	Vmax	223724.7	800.2	98.0	223855.0	800.1	98.0	224271.3	800.2	98.0	224565.0	800.3	98.0	224866.3	800.2	98.0
30%	Vmax	334388.3	801.1	98.1	335920.3	801.1	98.1	334428.7	801.1	98.1	335141.7	801.2	98.1	335601.3	801.2	98.1
50%	Vmax	558130.0	800.1	98.1	558293.3	800.2	98.1	560121.0	800.1	98.1	558847.0	800.1	98.1	557357.7	800.1	98.1
75%	Vmax	834253.0	800.9	98.1	831398.3	800.8	98.1	835620.7	800.8	98.1	830241.3	800.9	98.1	832323.3	800.8	98.1
100%	Vmax	1108306.7	800.7	97.9	1110060.0	800.7	97.9	1111770.0	800.6	97.9	1107760.0	800.6	97.9	1109450.0	800.7	97.9

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	101199.0	642.5	98.0	101016.7	642.6	98.0									
20%	Vmin	224895.0	642.6	98.3	224474.7	642.5	98.3									
30%	Vmin	336412.0	642.6	98.4	336976.3	642.5	98.4									
50%	Vmin	561994.7	642.5	98.4	561334.0	642.4	98.4									
75%	Vmin	834218.7	642.4	98.3	834383.3	642.4	98.3									
100%	Vmin	1109730.0	642.1	98.1	1109436.7	642.1	98.1									
10%	Vnom	100635.0	691.0	97.9	101078.7	690.9	97.9									
20%	Vnom	226682.0	690.9	98.2	224420.0	690.9	98.2									
30%	Vnom	336119.7	691.0	98.3	336595.3	691.0	98.3									
50%	Vnom	558522.0	690.9	98.3	558102.7	691.0	98.3									
75%	Vnom	831983.7	690.8	98.3	834360.7	690.7	98.2									
100%	Vnom	1109213.3	690.5	98.1	1109003.3	690.5	98.1									
10%	Vmax	101065.0	801.1	97.6	100864.7	801.1	97.6									
20%	Vmax	225260.0	800.2	98.0	224831.3	800.1	98.0									
30%	Vmax	334032.0	801.2	98.1	334437.7	801.2	98.1									
50%	Vmax	558594.3	800.2	98.1	560070.3	800.1	98.1									
75%	Vmax	833098.7	800.9	98.1	834519.7	800.9	98.1									
100%	Vmax	1108263.3	800.7	97.9	1110843.3	800.7	97.9									