Manufacturer: Power Electronics

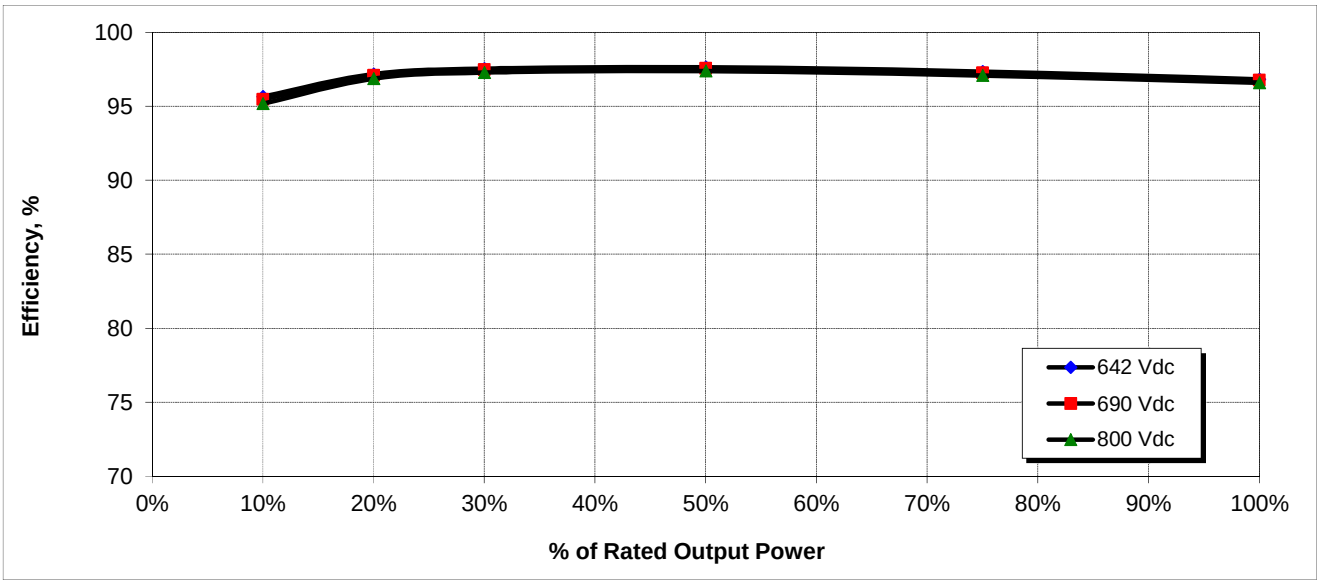
Model #: FS1390CU (440Vac)

Rated Maximum Continuous Output Power: 1550.0 kW Night Tare Loss: -328 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		155.00	310.00	465.00	775.00	1162.50	1550.00	Wtd
Vmin	642	95.7	97.2	97.5	97.6	97.4	96.8	97.3
Vnom	690	95.5	97.1	97.5	97.6	97.3	96.8	97.2
Vmax	800	95.2	96.9	97.3	97.4	97.1	96.6	97.1

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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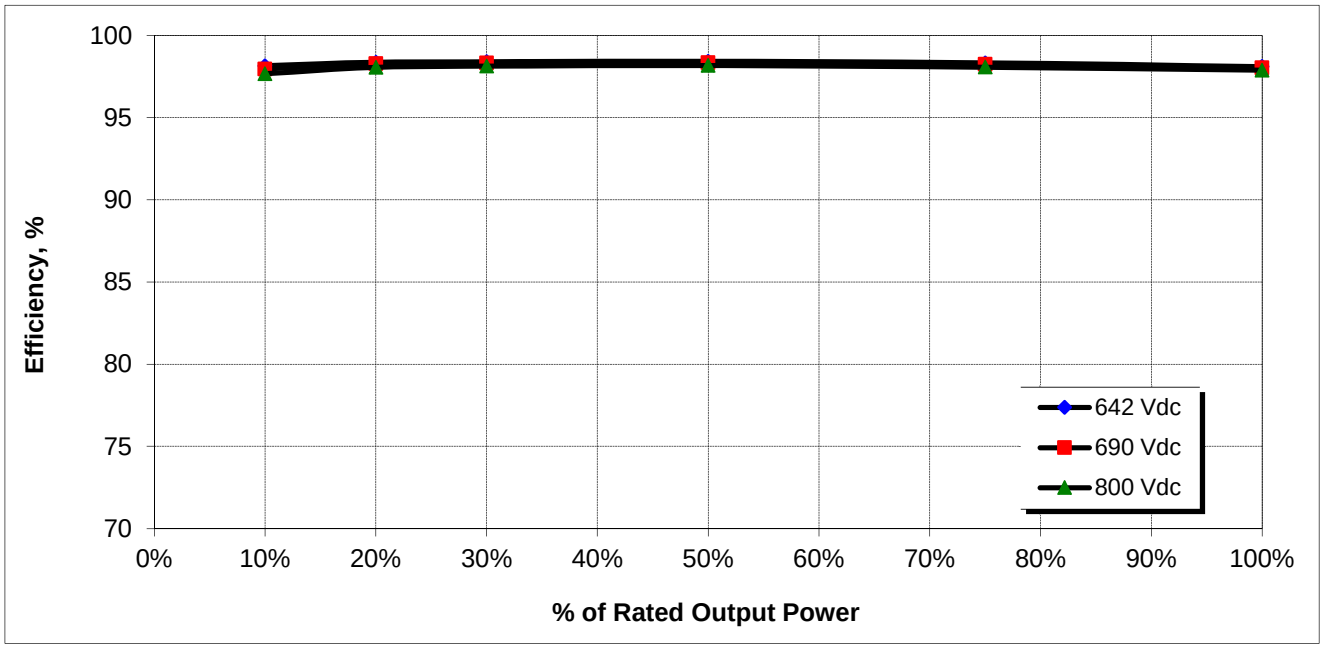
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		155.00	310.00	465.00	775.00	1162.50	1550.00	Wtd
Vmin	642	98.2	98.4	98.4	98.4	98.3	98.1	98.3
Vnom	690	98.0	98.3	98.3	98.3	98.3	98.0	98.3
Vmax	800	97.7	98.1	98.1	98.2	98.1	97.9	98.1

Inverter Efficiency only = 98.0%



1550KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		155.00	310.00	465.00	775.00	1162.50	1550.00	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	151878.0	642.6	98.0	150418.7	642.6	98.2	151639.0	642.6	98.3	152302.3	642.6	98.3	152396.0	642.6	98.3
20%	Vmin	313363.7	642.5	98.4	313192.0	642.4	98.4	311185.3	642.6	98.4	312879.7	642.5	98.4	314070.0	642.5	98.4
30%	Vmin	473249.3	642.5	98.4	472914.0	642.4	98.4	476131.7	642.3	98.4	475311.3	642.4	98.4	472480.7	642.4	98.4
50%	Vmin	777870.7	642.2	98.4	777951.0	642.2	98.4	778727.7	642.2	98.4	781242.7	642.3	98.4	778658.7	642.3	98.4
75%	Vmin	1166106.7	642.2	98.3	1166390.0	642.1	98.3	1164483.3	642.1	98.3	1171053.3	642.0	98.3	1165150.0	642.1	98.3
100%	Vmin	1547916.7	642.8	98.1	1547166.7	642.8	98.1	1546633.3	642.8	98.1	1551273.3	642.7	98.1	1544230.0	642.9	98.1
10%	Vnom	152287.0	691.0	98.2	151095.3	691.0	98.0	151484.3	691.0	97.9	150944.7	690.9	97.9	151774.3	691.0	97.9
20%	Vnom	312273.3	690.9	98.3	313028.3	690.9	98.3	312351.3	690.9	98.3	313717.3	690.9	98.3	312388.7	690.9	98.3
30%	Vnom	475813.0	690.9	98.3	478511.3	690.8	98.3	479242.3	690.8	98.3	479308.7	690.8	98.3	477767.7	690.8	98.3
50%	Vnom	779936.7	690.7	98.3	778745.0	690.7	98.3	779208.3	690.7	98.3	783965.7	690.6	98.3	778105.0	690.7	98.3
75%	Vnom	1163776.7	690.6	98.2	1169756.7	690.6	98.2	1163736.7	690.5	98.2	1166453.3	690.5	98.3	1168320.0	690.6	98.3
100%	Vnom	1549140.0	691.3	98.0	1547433.3	691.4	98.0	1548660.0	691.4	98.0	1548890.0	691.3	98.0	1550306.7	691.3	98.0
10%	Vmax	150437.0	800.2	97.7	151666.3	800.1	97.6	151430.0	800.2	97.7	151640.3	800.1	97.7	151990.3	800.3	97.7
20%	Vmax	312750.0	801.2	98.1	312814.0	801.1	98.1	311566.7	801.1	98.1	311551.3	801.1	98.1	314077.7	801.1	98.1
30%	Vmax	481373.7	799.9	98.1	477362.0	800.0	98.1	478237.3	800.0	98.1	475635.3	800.0	98.1	478396.7	800.0	98.1
50%	Vmax	780916.7	801.0	98.2	779295.0	800.9	98.2	776915.7	800.8	98.2	780221.3	800.9	98.2	778725.7	801.0	98.2
75%	Vmax	1153660.0	800.7	98.1	1164486.7	800.8	98.1	1163406.7	800.8	98.1	1166780.0	800.8	98.1	1166903.3	800.7	98.1
100%	Vmax	1551993.3	800.6	97.9	1556993.3	800.6	97.9	1554996.7	800.6	97.9	1555790.0	800.6	97.9	1557146.7	800.6	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	151888.3	642.5	98.0	152636.3	642.6	98.0									
20%	Vmin	311050.7	642.6	98.4	312172.3	642.5	98.4									
30%	Vmin	476826.7	642.4	98.4	474872.0	642.4	98.4									
50%	Vmin	779240.3	642.3	98.4	782782.0	642.2	98.4									
75%	Vmin	1168523.3	642.0	98.3	1167286.7	642.0	98.3									
100%	Vmin	1546573.3	642.7	98.1	1544460.0	642.8	98.1									
10%	Vnom	151351.0	691.0	97.9	151509.7	691.0	97.9									
20%	Vnom	311962.7	690.9	98.3	313569.0	690.9	98.3									
30%	Vnom	478022.3	690.9	98.3	478397.0	690.7	98.3									
50%	Vnom	781018.7	690.7	98.3	782267.7	690.7	98.3									
75%	Vnom	1171843.3	690.5	98.3	1170273.3	690.6	98.3									
100%	Vnom	1548983.3	691.3	98.0	1545563.3	691.5	98.0									
10%	Vmax	151238.3	800.1	97.7	151607.7	800.2	97.7									
20%	Vmax	312651.0	801.1	98.1	312519.7	801.1	98.1									
30%	Vmax	478601.3	799.9	98.1	477160.7	800.0	98.1									
50%	Vmax	779563.3	801.0	98.2	779197.7	800.9	98.2									
75%	Vmax	1167423.3	800.7	98.1	1164573.3	800.8	98.1									
100%	Vmax	1558056.7	800.7	97.9	1558233.3	800.6	97.9									