Manufacturer: Power Electronics

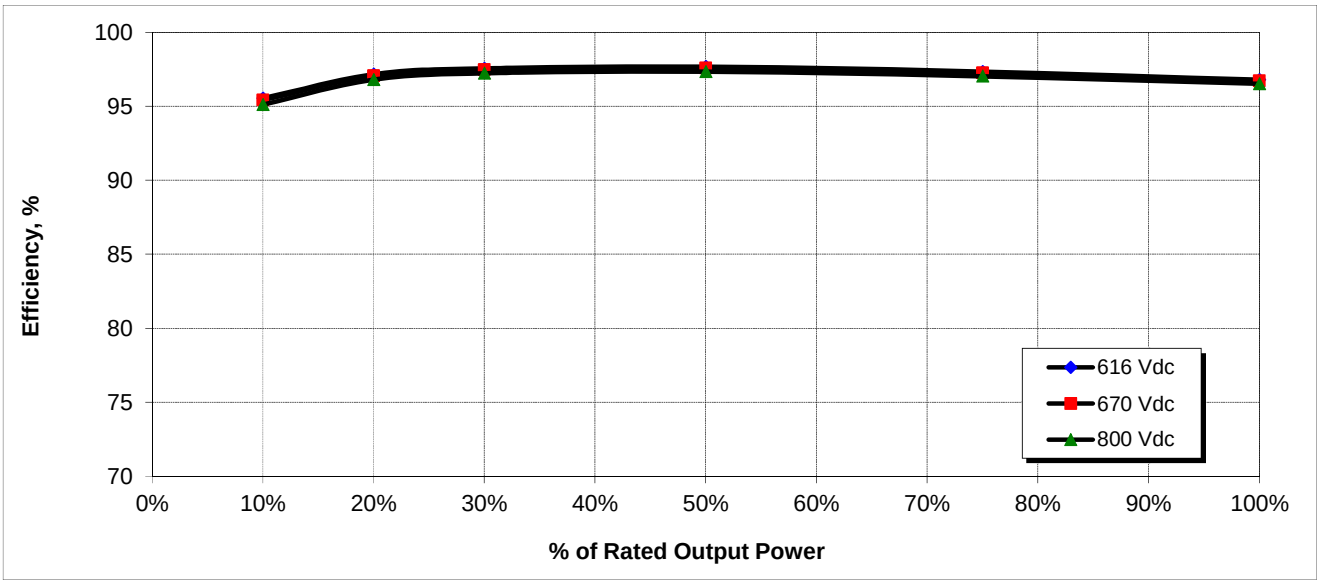
Model #: FS1330CU (420Vac)

Rated Maximum Continuous Output Power: 1480.0 kW Night Tare Loss: -318 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		148.00	296.00	444.00	740.00	1110.00	1480.00	Wtd
Vmin	616	95.5	97.2	97.6	97.7	97.4	96.8	97.3
Vnom	670	95.4	97.1	97.5	97.6	97.3	96.7	97.2
Vmax	800	95.1	96.8	97.2	97.3	97.0	96.5	97.0

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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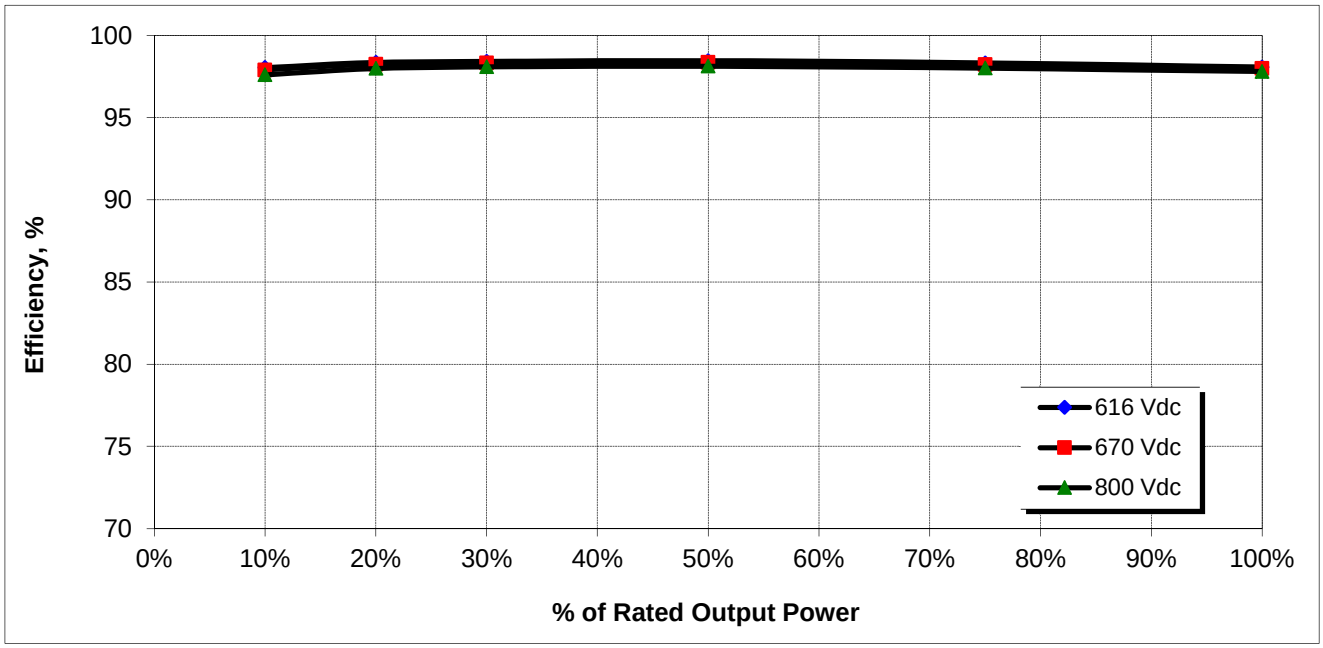
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		148.00	296.00	444.00	740.00	1110.00	1480.00	Wtd
Vmin	616	98.0	98.4	98.4	98.5	98.3	98.1	98.4
Vnom	670	97.9	98.3	98.3	98.4	98.2	98.0	98.3
Vmax	800	97.6	98.0	98.1	98.1	98.0	97.8	98.0

Inverter Efficiency only = 98.0%



1480KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		148.00	296.00	444.00	740.00	1110.00	1480.00	Wtd
Vmin	616	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vnom	670	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	143151.7	616.6	98.0	141916.3	616.6	98.1	142054.7	616.5	98.0	142043.0	616.5	98.0	142448.3	616.5	98.0
20%	Vmin	298201.0	617.5	98.4	298700.3	617.5	98.4	299810.0	617.5	98.4	298843.7	617.4	98.4	298524.7	617.5	98.4
30%	Vmin	446342.0	616.5	98.4	445013.7	616.5	98.4	447208.7	616.4	98.4	444683.3	616.4	98.4	445721.3	616.4	98.4
50%	Vmin	745323.3	616.4	98.5	749755.3	616.4	98.5	745881.3	616.4	98.5	747443.3	616.4	98.5	745975.3	616.4	98.5
75%	Vmin	1117036.7	616.3	98.3	1122360.0	616.2	98.3	1118540.0	616.2	98.3	1117346.7	616.2	98.3	1116743.3	616.2	98.3
100%	Vmin	1477380.0	616.1	98.1	1478446.7	616.1	98.1	1480690.0	616.1	98.1	1480576.7	616.1	98.1	1480140.0	616.0	98.1
10%	Vnom	142049.3	670.6	97.9	142637.3	670.6	97.9	141773.3	670.6	97.9	142792.3	670.6	97.9	141757.7	670.7	97.9
20%	Vnom	298898.7	670.7	98.3	298516.3	670.7	98.3	299766.7	670.6	98.3	299939.0	670.6	98.2	299462.0	670.6	98.3
30%	Vnom	444608.7	670.6	98.3	444115.0	670.6	98.3	445498.3	670.6	98.3	444484.0	670.6	98.3	444279.0	670.6	98.3
50%	Vnom	747044.0	670.6	98.4	747576.7	670.6	98.4	745020.3	670.6	98.4	746362.0	670.6	98.4	746069.0	670.5	98.4
75%	Vnom	1116613.3	670.3	98.2	1115410.0	670.4	98.2	1117936.7	670.4	98.2	1120453.3	670.4	98.2	1117590.0	670.4	98.2
100%	Vnom	1467760.0	670.3	98.0	1467913.3	670.3	98.0	1467196.7	670.3	98.0	1467620.0	670.4	98.0	1465776.7	670.3	98.0
10%	Vmax	141956.3	800.1	97.6	142225.7	800.2	97.6	141703.0	800.2	97.6	142131.0	800.1	97.6	142843.3	800.1	97.6
20%	Vmax	299271.0	800.3	98.0	298570.7	800.2	98.0	298422.0	800.1	98.0	299820.0	800.3	98.0	299612.3	800.3	98.0
30%	Vmax	445660.3	800.2	98.1	444521.3	800.1	98.1	445102.7	800.2	98.1	444147.7	800.2	98.1	444328.3	800.2	98.1
50%	Vmax	744096.7	800.2	98.1	745810.0	800.2	98.1	748537.3	800.2	98.1	743325.7	800.2	98.1	743331.3	800.2	98.1
75%	Vmax	1113573.3	800.1	98.0	1112233.3	800.2	98.0	1115556.7	800.2	98.0	1118356.7	800.1	98.0	1113333.3	800.2	98.0
100%	Vmax	1466083.3	800.1	97.8	1464113.3	800.2	97.8	1463240.0	800.1	97.8	1464976.7	800.1	97.8	1466556.7	800.1	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	142793.7	616.5	98.0	142548.3	616.5	98.1									
20%	Vmin	298604.0	617.4	98.4	300250.7	617.5	98.4									
30%	Vmin	445070.3	616.4	98.4	443476.0	616.4	98.4									
50%	Vmin	746980.0	616.4	98.5	748218.7	616.4	98.5									
75%	Vmin	1121653.3	616.2	98.3	1120460.0	616.2	98.3									
100%	Vmin	1481266.7	616.0	98.1	1477500.0	616.0	98.1									
10%	Vnom	142672.7	670.7	97.9	142545.0	670.6	97.9									
20%	Vnom	298115.3	670.5	98.3	299074.0	670.7	98.3									
30%	Vnom	446098.0	670.6	98.3	445130.3	670.6	98.3									
50%	Vnom	747710.3	670.6	98.4	747610.3	670.6	98.4									
75%	Vnom	1117583.3	670.4	98.2	1120833.3	670.4	98.2									
100%	Vnom	1469263.3	670.3	98.0	1469206.7	670.3	98.0									
10%	Vmax	142582.0	800.0	97.6	142732.0	800.2	97.6									
20%	Vmax	299264.0	800.2	98.0	298572.0	800.2	98.0									
30%	Vmax	444915.7	800.3	98.1	445136.0	800.2	98.1									
50%	Vmax	749459.0	800.3	98.1	742121.3	800.3	98.1									
75%	Vmax	1114606.7	800.1	98.0	1112616.7	800.1	98.0									
100%	Vmax	1466820.0	800.1	97.8	1464653.3	800.1	97.8									