Manufacturer: Power Electronics

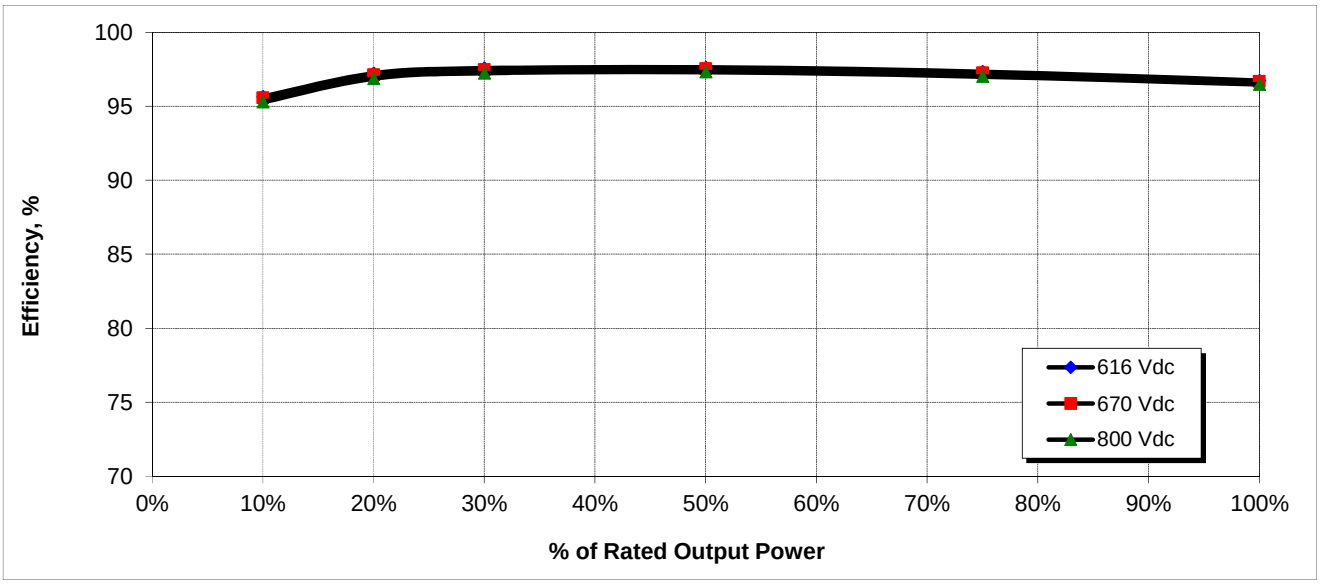
Model #: FS1520CU (420Vac)

Rated Maximum Continuous Output Power: 1690.0 kW Night Tare Loss: -343 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		169.00	338.00	507.00	845.00	1267.50	1690.00	Wtd
Vmin	616	95.7	97.2	97.6	97.6	97.3	96.7	97.3
Vnom	670	95.6	97.1	97.5	97.5	97.3	96.7	97.2
Vmax	800	95.3	96.9	97.2	97.3	97.0	96.5	97.0

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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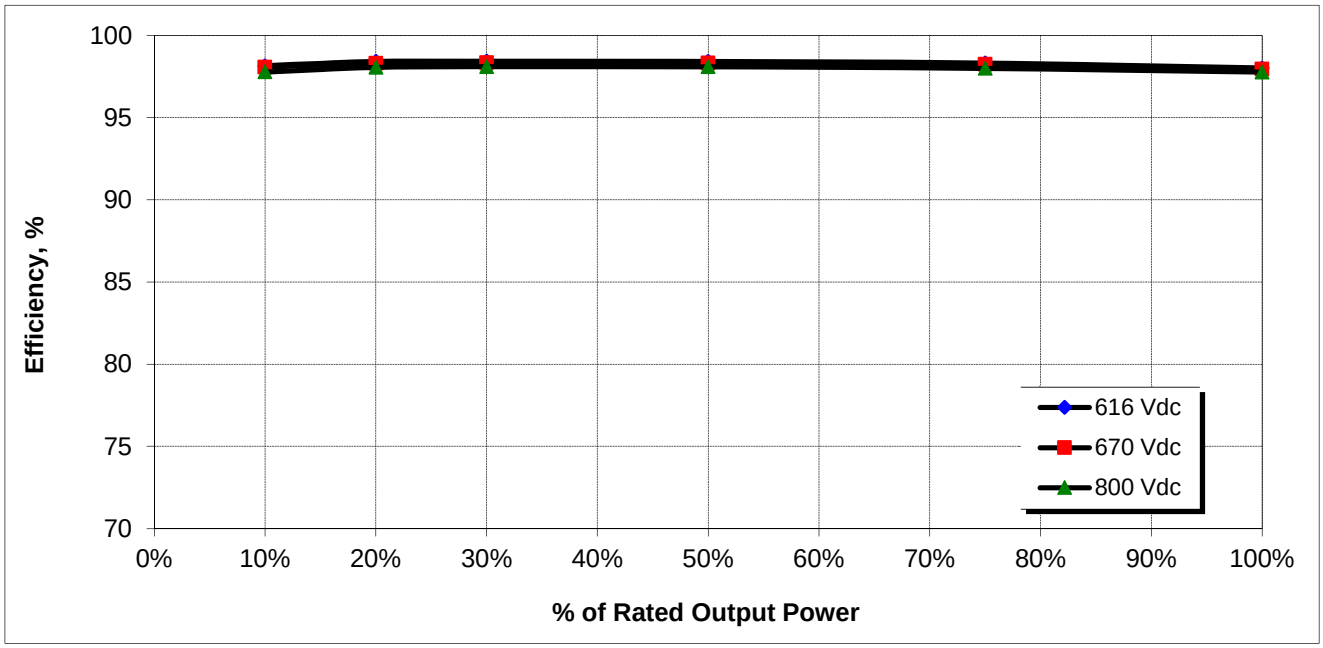
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		169.00	338.00	507.00	845.00	1267.50	1690.00	Wtd
Vmin	616	98.2	98.4	98.4	98.4	98.3	98.0	98.3
Vnom	670	98.1	98.3	98.3	98.3	98.2	98.0	98.3
Vmax	800	97.8	98.1	98.1	98.1	98.0	97.8	98.0

Inverter Efficiency only = 98.0%



1690KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		169.00	338.00	507.00	845.00	1267.50	1690.00	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	162464.7	616.8	98.2	162533.0	616.8	98.2	162435.7	616.8	98.2	161759.3	616.8	98.2	162982.3	616.8	98.2
20%	Vmin	345037.0	616.7	98.4	344811.3	616.6	98.4	345007.0	616.6	98.4	344612.0	616.6	98.4	344873.0	616.7	98.4
30%	Vmin	512187.3	616.6	98.4	509225.0	616.6	98.4	511121.0	616.6	98.4	509420.7	616.5	98.4	513066.7	616.5	98.4
50%	Vmin	854757.0	616.5	98.4	852929.7	616.4	98.4	853430.0	616.5	98.4	850787.3	616.5	98.4	852600.3	616.5	98.4
75%	Vmin	1278613.3	616.4	98.3	1275260.0	616.3	98.3	1276846.7	616.3	98.3	1274813.3	616.3	98.3	1277990.0	616.2	98.3
100%	Vmin	1697533.3	616.2	98.0	1698226.7	616.1	98.0	1697060.0	616.1	98.0	1698986.7	616.2	98.0	1699343.3	616.1	98.0
10%	Vnom	167007.3	670.9	98.1	167602.3	670.9	98.1	166490.7	670.9	98.1	166802.7	670.9	98.1	167075.7	670.9	98.1
20%	Vnom	344767.3	670.7	98.3	344792.7	670.7	98.3	344440.0	670.7	98.3	344134.3	670.8	98.3	344949.7	670.8	98.3
30%	Vnom	512156.3	670.7	98.3	511219.3	670.7	98.3	511253.7	670.7	98.3	511627.7	670.7	98.3	510615.0	670.6	98.3
50%	Vnom	851251.0	670.7	98.3	846481.0	670.7	98.3	846523.3	670.7	98.3	849219.3	670.7	98.3	851270.0	670.6	98.3
75%	Vnom	1273033.3	670.5	98.2	1274276.7	670.4	98.2	1273656.7	670.4	98.2	1272920.0	670.4	98.2	1274250.0	670.5	98.2
100%	Vnom	1698260.0	670.3	97.9	1698956.7	670.3	97.9	1698810.0	670.3	97.9	1698340.0	670.4	98.0	1698863.3	670.4	98.0
10%	Vmax	166559.3	800.4	97.8	166933.3	800.4	97.8	165811.7	800.4	97.8	166803.0	800.5	97.8	167002.0	800.4	97.8
20%	Vmax	344873.3	800.3	98.1	344500.7	800.3	98.1	344390.0	800.3	98.1	344273.3	800.2	98.1	343673.7	800.3	98.1
30%	Vmax	511106.3	800.4	98.1	511393.7	800.3	98.1	512084.7	800.3	98.1	509605.3	800.3	98.1	509988.0	800.3	98.1
50%	Vmax	847130.7	800.4	98.1	849744.0	800.3	98.1	849921.7	800.4	98.1	849163.0	800.3	98.1	850938.3	800.3	98.1
75%	Vmax	1265250.0	800.3	98.0	1266450.0	800.4	98.0	1267360.0	800.3	98.0	1268206.7	800.2	98.0	1268973.3	800.2	98.0
100%	Vmax	1697113.3	800.1	97.8	1694000.0	800.1	97.8	1693100.0	800.1	97.8	1694713.3	800.2	97.8	1693593.3	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	161830.3	616.9	98.2	162148.0	616.9	98.2									
20%	Vmin	345074.7	616.7	98.4	344991.3	616.7	98.4									
30%	Vmin	511256.3	616.5	98.4	511164.7	616.6	98.4									
50%	Vmin	854665.7	616.5	98.4	851837.7	616.5	98.4									
75%	Vmin	1276836.7	616.3	98.3	1275366.7	616.3	98.3									
100%	Vmin	1698523.3	616.2	98.0	1698823.3	616.1	98.0									
10%	Vnom	166399.7	670.9	98.1	167646.0	670.9	98.1									
20%	Vnom	345805.0	670.7	98.3	345064.3	670.7	98.3									
30%	Vnom	510204.7	670.7	98.3	511950.7	670.7	98.3									
50%	Vnom	852089.0	670.6	98.3	851564.7	670.6	98.3									
75%	Vnom	1278703.3	670.4	98.2	1275460.0	670.4	98.2									
100%	Vnom	1698800.0	670.3	98.0	1698173.3	670.3	98.0									
10%	Vmax	166906.0	800.4	97.8	166917.0	800.5	97.8									
20%	Vmax	345243.3	800.3	98.1	345418.7	800.2	98.1									
30%	Vmax	512554.7	800.3	98.1	510647.7	800.3	98.1									
50%	Vmax	845587.0	800.3	98.1	846906.3	800.3	98.1									
75%	Vmax	1269956.7	800.2	98.0	1267750.0	800.1	98.0									
100%	Vmax	1694426.7	800.2	97.8	1697433.3	800.1	97.8									