Manufacturer: Power Electronics

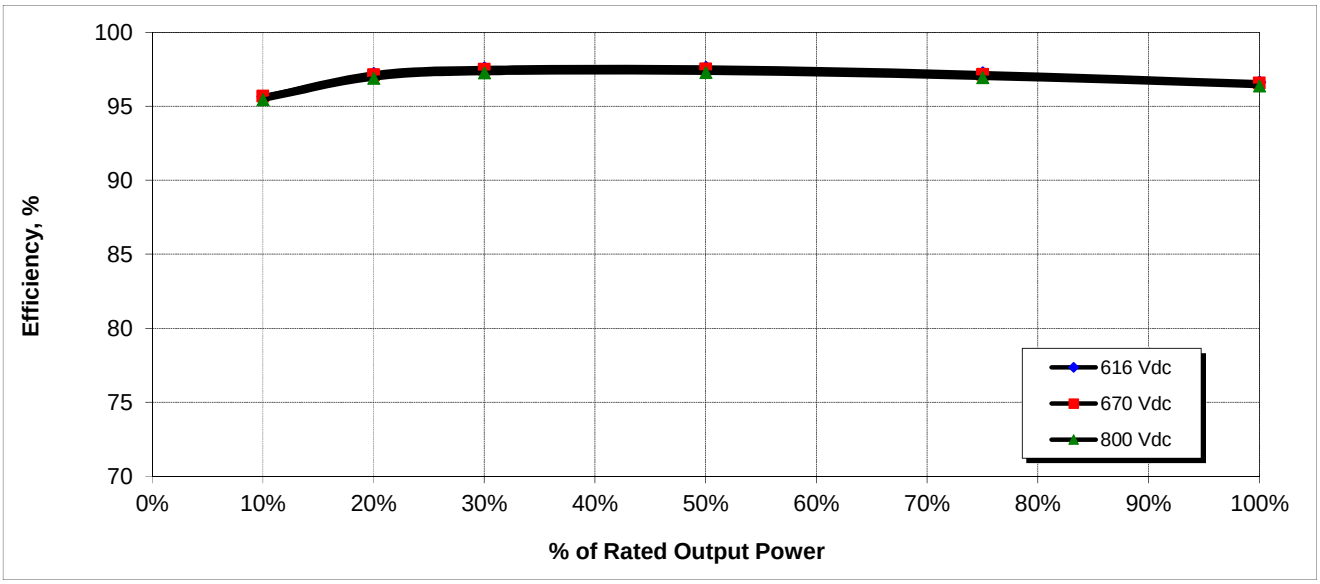
Model #: FS2110CU (420Vac)

Rated Maximum Continuous Output Power: 2110.0 kW Night Tare Loss: -388 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		211.00	422.00	633.00	1055.00	1582.50	2110.00	Wtd
Vmin	616	95.7	97.2	97.6	97.6	97.2	96.6	97.3
Vnom	670	95.7	97.1	97.5	97.5	97.1	96.6	97.2
Vmax	800	95.4	96.9	97.3	97.3	96.9	96.4	97.0

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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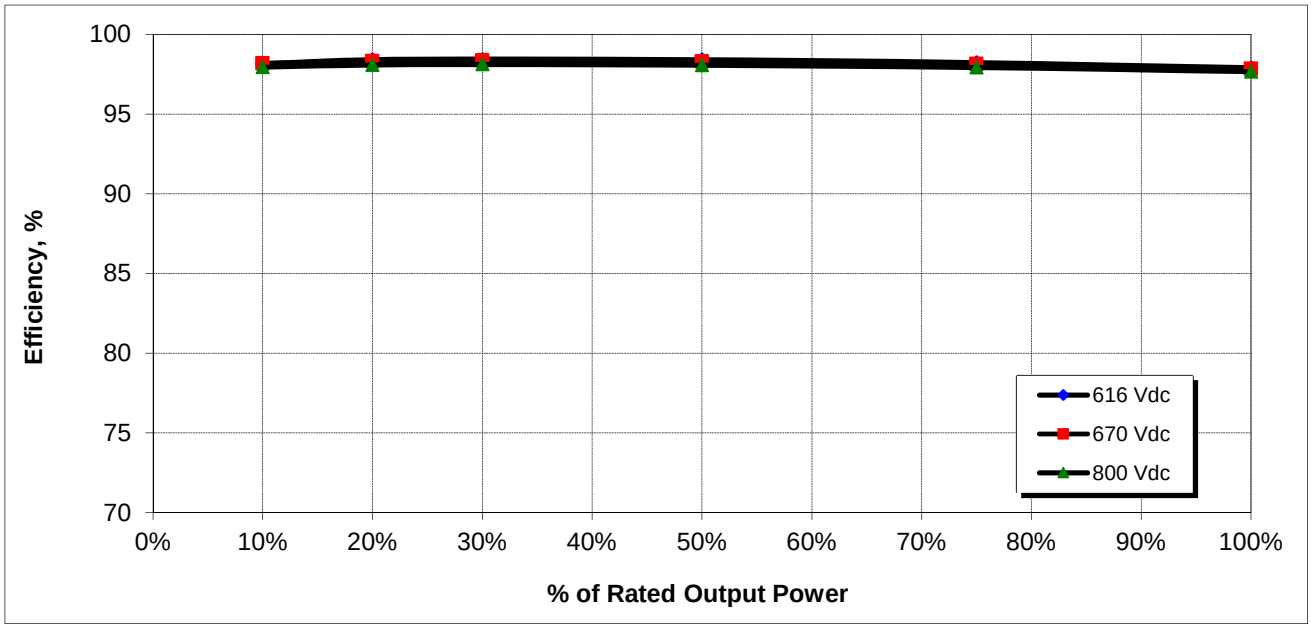
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		211.00	422.00	633.00	1055.00	1582.50	2110.00	Wtd
Vmin	616	98.2	98.4	98.4	98.4	98.2	97.9	98.3
Vnom	670	98.2	98.3	98.3	98.3	98.1	97.8	98.2
Vmax	800	97.9	98.1	98.1	98.1	97.9	97.7	98.0

Inverter Efficiency only = 98.0%



2110KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		211.00	422.00	633.00	1055.00	1582.50	2110.00	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	207420.7	617.0	98.2	206756.0	617.0	98.2	206829.0	617.0	98.2	207331.0	617.0	98.2	206770.3	617.0	98.2
20%	Vmin	425183.7	616.9	98.4	427512.0	616.8	98.4	426871.3	616.9	98.4	428340.7	616.9	98.4	427399.3	616.8	98.4
30%	Vmin	640971.3	616.6	98.4	643403.7	616.6	98.4	638266.0	616.7	98.4	641770.0	616.6	98.4	640306.3	616.6	98.4
50%	Vmin	1065843.3	616.5	98.4	1068060.0	616.4	98.4	1067026.7	616.4	98.4	1066980.0	616.4	98.4	1064140.0	616.4	98.4
75%	Vmin	1605443.3	617.2	98.2	1604543.3	617.2	98.2	1609403.3	617.1	98.2	1604373.3	617.2	98.2	1602590.0	617.2	98.2
100%	Vmin	2137473.3	616.9	97.9	2139306.7	616.9	97.9	2138533.3	617.0	97.9	2138106.7	616.9	97.9	2134490.0	616.9	97.9
10%	Vnom	207097.3	670.1	98.2	207105.0	670.1	98.2	207152.3	670.1	98.2	207081.3	670.2	98.2	206949.0	670.1	98.2
20%	Vnom	427627.3	671.0	98.3	427385.3	671.0	98.3	427547.3	670.9	98.3	427724.3	671.0	98.3	427934.3	671.0	98.3
30%	Vnom	640368.0	671.7	98.4	639599.7	671.7	98.3	637348.0	671.7	98.3	638167.3	671.8	98.3	637033.7	671.8	98.3
50%	Vnom	1066833.3	670.6	98.3	1065730.0	670.6	98.3	1067196.7	670.7	98.3	1065163.3	670.6	98.3	1065266.7	670.6	98.3
75%	Vnom	1599613.3	671.4	98.1	1599000.0	671.4	98.1	1605563.3	671.3	98.1	1600996.7	671.4	98.1	1599933.3	671.4	98.1
100%	Vnom	2138803.3	671.1	97.8	2138966.7	671.1	97.8	2132750.0	671.1	97.8	2133710.0	671.1	97.8	2134183.3	671.1	97.8
10%	Vmax	208676.7	800.7	97.9	209143.0	800.7	97.9	209360.7	800.7	97.9	209753.7	800.6	97.9	208493.7	800.7	97.9
20%	Vmax	428071.3	800.5	98.1	427154.7	800.6	98.1	426360.7	800.6	98.1	427491.3	800.6	98.1	427498.7	800.6	98.1
30%	Vmax	636606.0	800.4	98.1	634359.7	800.5	98.1	640127.3	800.5	98.1	651348.0	800.4	98.1	636219.3	800.4	98.1
50%	Vmax	1058290.0	800.4	98.1	1062846.7	800.4	98.1	1067283.3	800.4	98.1	1063893.3	800.4	98.1	1063453.3	800.4	98.1
75%	Vmax	1592953.3	800.3	97.9	1601016.7	800.2	97.9	1596340.0	800.3	97.9	1597320.0	800.3	97.9	1599960.0	800.3	97.9
100%	Vmax	2128020.0	801.1	97.7	2131466.7	801.0	97.7	2129426.7	801.1	97.7	2131106.7	801.0	97.7	2131860.0	801.1	97.7

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	207529.3	617.0	98.2	206364.3	616.9	98.2									
20%	Vmin	427243.7	616.8	98.4	426437.3	616.8	98.4									
30%	Vmin	640018.0	616.6	98.4	639589.7	616.6	98.4									
50%	Vmin	1067210.0	616.4	98.4	1067753.3	616.5	98.4									
75%	Vmin	1608143.3	617.1	98.2	1607193.3	617.2	98.2									
100%	Vmin	2131650.0	617.0	97.9	2132290.0	616.9	97.9									
10%	Vnom	207418.0	670.2	98.2	207048.7	670.1	98.1									
20%	Vnom	426676.0	671.0	98.3	427456.7	670.9	98.3									
30%	Vnom	639582.7	671.7	98.4	640115.7	671.7	98.3									
50%	Vnom	1063796.7	670.6	98.3	1064686.7	670.7	98.3									
75%	Vnom	1604186.7	671.5	98.1	1600516.7	671.5	98.1									
100%	Vnom	2133523.3	671.1	97.8	2130780.0	671.3	97.8									
10%	Vmax	208868.0	800.7	97.9	209338.0	800.7	97.9									
20%	Vmax	427081.3	800.6	98.1	427910.7	800.6	98.1									
30%	Vmax	637611.0	800.3	98.1	636962.3	800.4	98.1									
50%	Vmax	1065343.3	800.3	98.1	1063900.0	800.3	98.1									
75%	Vmax	1594310.0	800.3	97.9	1601060.0	800.2	97.9									
100%	Vmax	2130863.3	801.1	97.7	2131823.3	801.0	97.7									