Manufacturer: Power Electronics

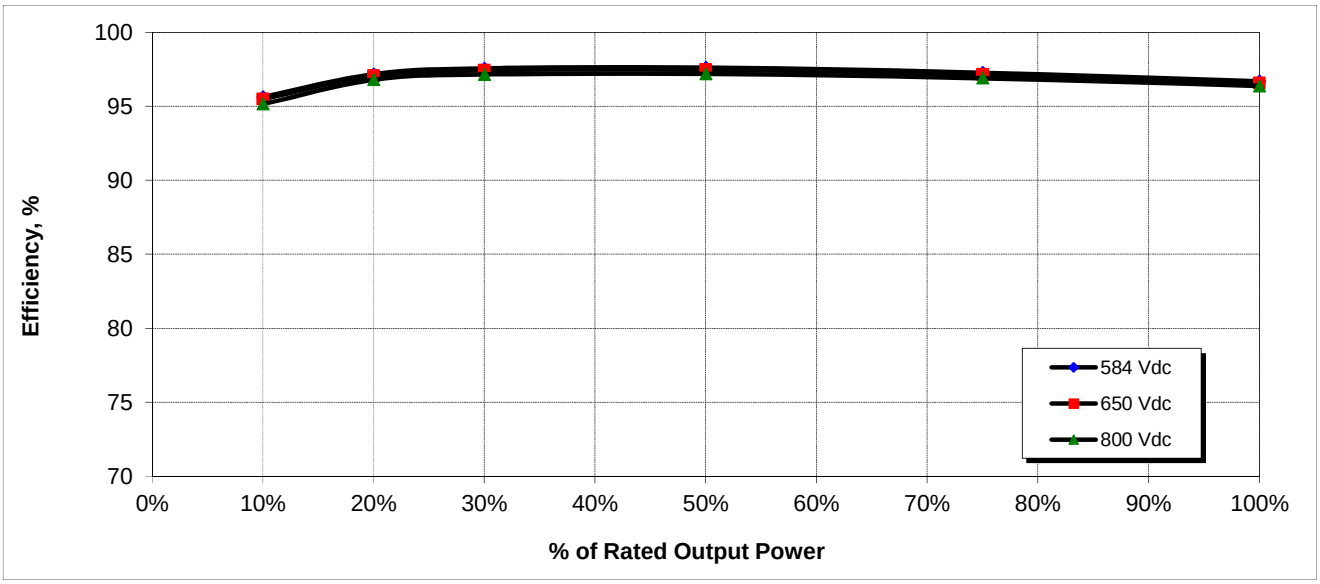
Model #: FS1600CU (400Vac)

Rated Maximum Continuous Output Power: 1600.0 kW Night Tare Loss: -340 W

Vmin: 584 Vdc Vnom: 650 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		160.00	320.00	480.00	800.00	1200.00	1600.00	Wtd
Vmin	584	95.6	97.2	97.6	97.6	97.3	96.7	97.3
Vnom	650	95.5	97.1	97.4	97.5	97.2	96.6	97.2
Vmax	800	95.2	96.8	97.2	97.2	96.9	96.4	96.9

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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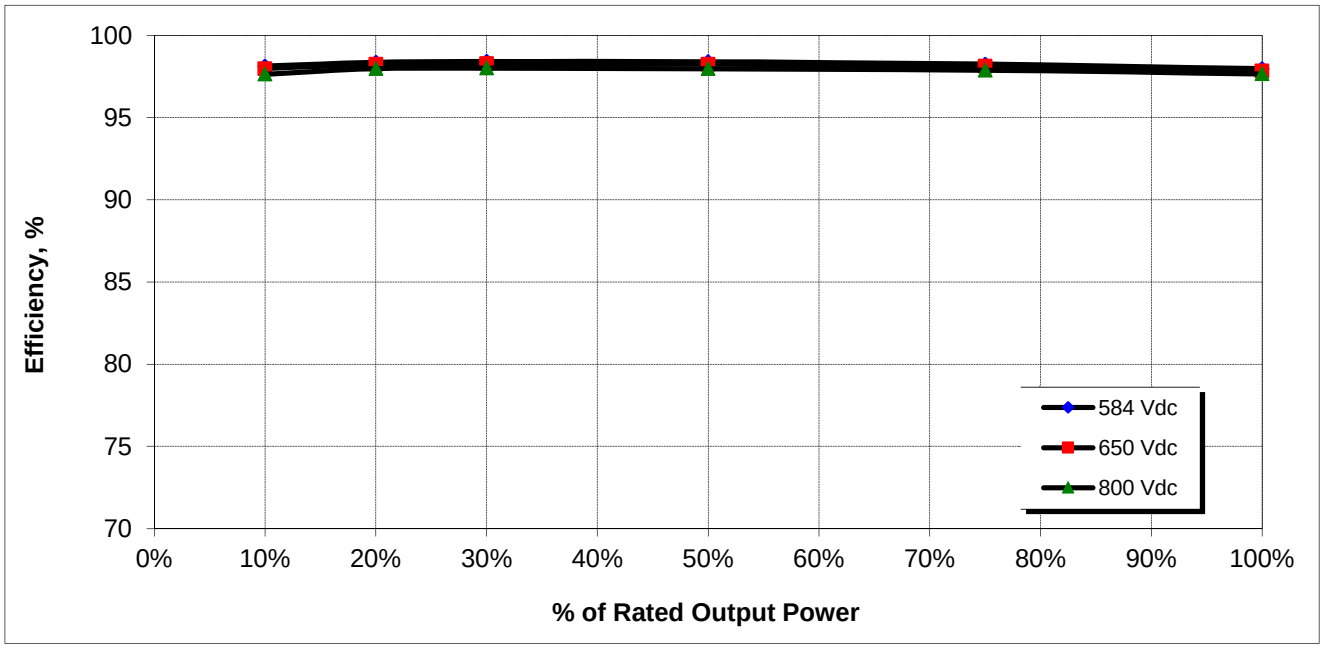
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		160.00	320.00	480.00	800.00	1200.00	1600.00	Wtd
Vmin	584	98.1	98.4	98.4	98.4	98.3	98.0	98.3
Vnom	650	98.0	98.2	98.3	98.3	98.1	97.8	98.2
Vmax	800	97.6	98.0	98.0	98.0	97.9	97.7	97.9

Inverter Efficiency only = 98.0%



1600KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		160.00	320.00	480.00	800.00	1200.00	1600.00	Wtd
Vmin	584	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vnom	650	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	156761.7	584.2	98.1	156059.0	584.2	98.1	156862.7	584.2	98.1	155723.3	584.2	98.1	156754.3	584.2	98.1
20%	Vmin	324835.3	585.1	98.4	324674.0	585.0	98.4	324786.0	585.0	98.4	325081.3	585.0	98.4	325741.3	585.0	98.4
30%	Vmin	485023.3	586.0	98.4	483470.7	586.0	98.4	484623.3	586.0	98.4	485256.7	586.0	98.4	485384.0	586.0	98.4
50%	Vmin	809360.0	584.6	98.4	807284.7	584.5	98.4	809087.3	584.6	98.4	806063.7	584.7	98.4	808767.7	584.7	98.4
75%	Vmin	1208203.3	584.4	98.2	1210186.7	584.4	98.3	1210136.7	584.3	98.3	1212086.7	584.3	98.3	1208316.7	584.4	98.3
100%	Vmin	1618043.3	584.1	98.0	1618653.3	584.1	98.0	1618793.3	584.0	98.0	1619006.7	584.1	98.0	1619253.3	584.1	98.0
10%	Vnom	156006.7	650.9	98.0	156872.0	650.9	98.0	156776.7	650.9	98.0	156810.3	650.9	98.0	156206.3	650.9	98.0
20%	Vnom	325196.3	650.8	98.2	325246.7	650.8	98.2	323936.3	650.8	98.2	325740.3	650.8	98.2	324897.0	650.8	98.3
30%	Vnom	484002.0	650.7	98.3	484431.7	650.7	98.3	485718.0	650.8	98.3	486369.7	650.7	98.3	484804.7	650.8	98.3
50%	Vnom	808805.3	650.5	98.3	803860.0	650.5	98.2	807812.0	650.4	98.2	806849.7	650.5	98.3	804506.7	650.5	98.2
75%	Vnom	1205236.7	651.2	98.1	1201570.0	651.2	98.1	1204256.7	651.2	98.1	1201386.7	651.2	98.1	1202616.7	651.3	98.1
100%	Vnom	1611460.0	651.9	97.8	1611233.3	651.8	97.8	1610663.3	651.9	97.8	1611666.7	651.9	97.8	1612246.7	651.9	97.8
10%	Vmax	156021.7	800.7	97.6	156532.3	800.7	97.6	157033.3	800.7	97.6	155722.0	800.8	97.6	156431.3	800.8	97.6
20%	Vmax	324905.7	800.7	98.0	325196.0	800.7	98.0	324841.7	800.6	98.0	325394.3	800.7	98.0	325256.7	800.7	98.0
30%	Vmax	484487.3	800.6	98.0	483884.3	800.6	98.0	484588.3	800.6	98.0	484265.0	800.6	98.0	484430.3	800.7	98.0
50%	Vmax	804851.0	800.4	98.0	803835.3	800.4	98.0	802423.7	800.4	98.0	805906.7	800.4	98.0	805800.3	800.5	98.0
75%	Vmax	1204253.3	801.2	97.9	1204846.7	801.2	97.9	1202563.3	801.2	97.9	1199876.7	801.4	97.9	1203790.0	801.2	97.9
100%	Vmax	1615620.0	801.9	97.7	1615223.3	801.9	97.7	1615760.0	802.0	97.7	1616396.7	801.9	97.7	1615850.0	802.0	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	156674.3	584.2	98.1	156616.7	584.2	98.1									
20%	Vmin	325631.7	585.1	98.4	325065.7	585.1	98.4									
30%	Vmin	485032.0	586.0	98.4	486355.0	586.0	98.4									
50%	Vmin	810371.3	584.6	98.4	807095.0	584.6	98.4									
75%	Vmin	1208826.7	584.4	98.3	1206980.0	584.4	98.3									
100%	Vmin	1619136.7	584.1	98.0	1620196.7	584.0	98.0									
10%	Vnom	156274.7	650.9	98.0	156457.7	650.9	98.0									
20%	Vnom	324716.7	650.8	98.2	324721.7	650.8	98.2									
30%	Vnom	486504.0	650.8	98.3	486264.0	650.8	98.3									
50%	Vnom	806896.7	650.4	98.3	806348.3	650.5	98.3									
75%	Vnom	1205383.3	651.2	98.1	1205733.3	651.2	98.1									
100%	Vnom	1612070.0	651.9	97.8	1612083.3	651.9	97.8									
10%	Vmax	156316.3	800.7	97.6	156277.0	800.8	97.6									
20%	Vmax	325135.3	800.7	98.0	325769.3	800.7	98.0									
30%	Vmax	483754.3	800.7	98.0	485872.7	800.7	98.0									
50%	Vmax	805774.0	800.4	98.0	806191.7	800.5	98.0									
75%	Vmax	1200873.3	801.2	97.9	1202963.3	801.3	97.9									
100%	Vmax	1616323.3	802.0	97.7	1615343.3	802.0	97.7									