Manufacturer: Power Electronics

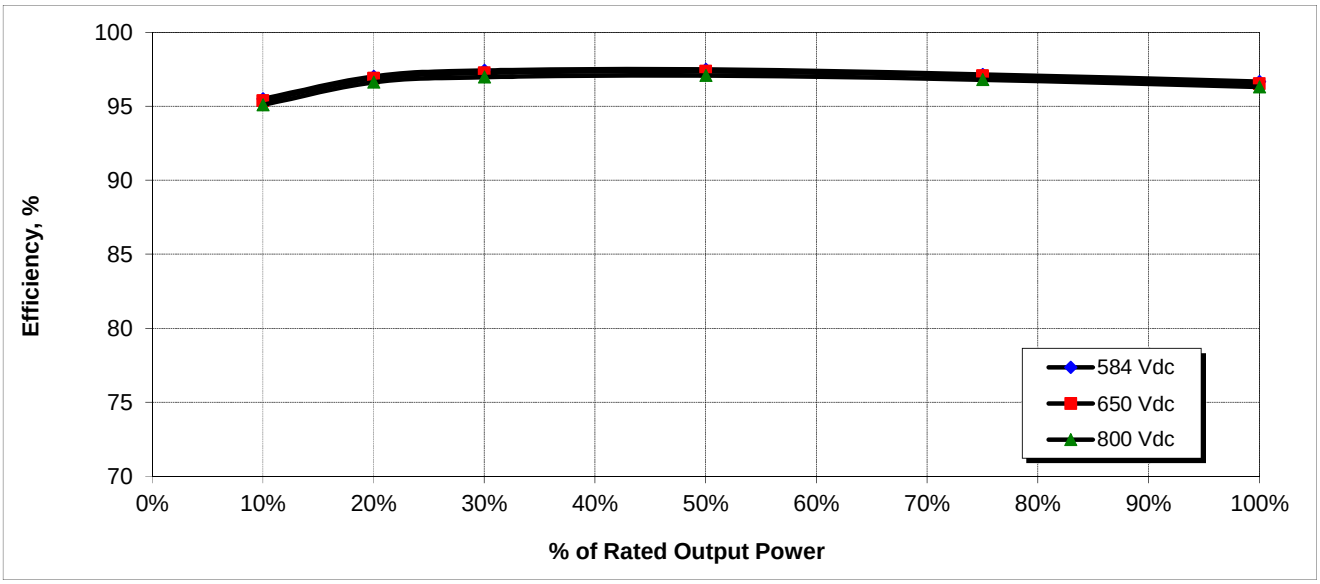
Model #: FS1080CU (400Vac)

Rated Maximum Continuous Output Power: 1200.0 kW Night Tare Loss: -289 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		120.00	240.00	360.00	600.00	900.00	1200.00	Wtd
Vmin	584	95.5	97.0	97.4	97.5	97.2	96.7	97.2
Vnom	650	95.4	96.9	97.3	97.4	97.1	96.5	97.0
Vmax	800	95.1	96.6	97.0	97.1	96.8	96.3	96.8

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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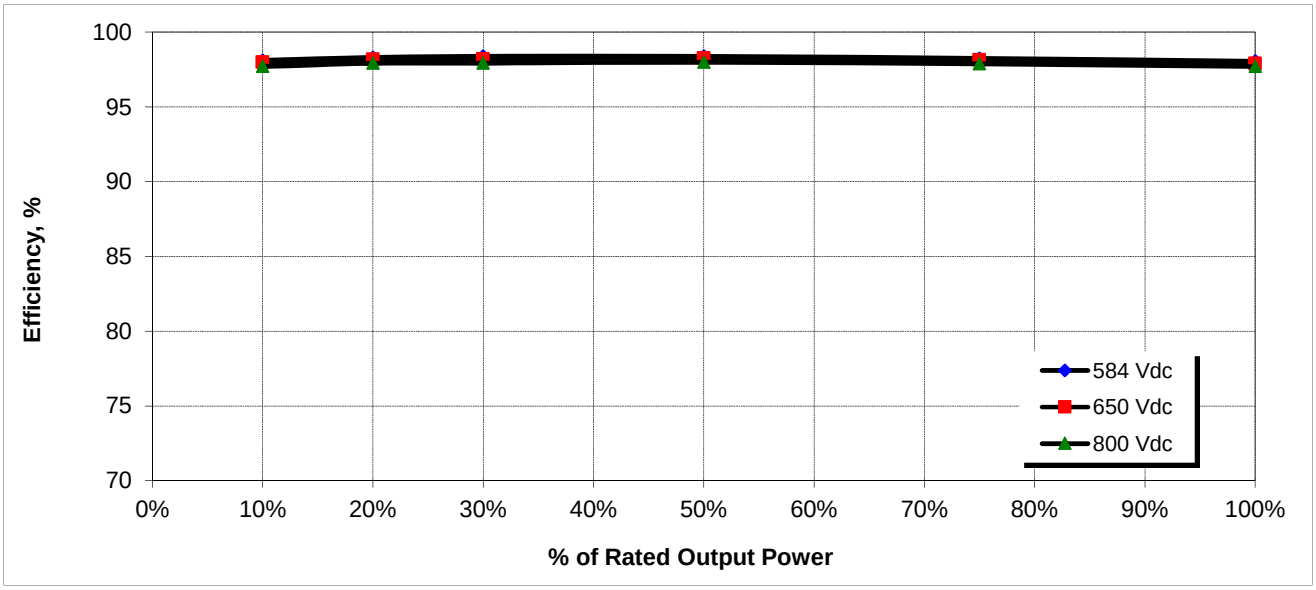
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		120.00	240.00	360.00	600.00	900.00	1200.00	Wtd
Vmin	584	98.1	98.3	98.4	98.4	98.2	98.1	98.3
Vnom	650	98.0	98.2	98.2	98.3	98.1	97.9	98.2
Vmax	800	97.7	97.9	97.9	98.0	97.9	97.7	97.9

Inverter Efficiency only = 98.0%



1200KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		120.00	240.00	360.00	600.00	900.00	1200.00	Wtd
Vmin	584	97.35	98.69	99.03	99.10	98.90	98.59	98.87
Vnom	650	97.35	98.69	99.03	99.10	98.90	98.59	98.87
Vmax	800	97.35	98.69	99.03	99.10	98.90	98.59	98.87

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	115389.7	584.1	98.1	115415.0	584.0	98.1	115392.0	584.0	98.1	115385.3	584.0	98.1	114965.3	584.0	98.1
20%	Vmin	242404.3	584.0	98.3	242716.3	584.1	98.3	241802.0	584.0	98.3	241687.0	584.0	98.3	241106.7	584.0	98.3
30%	Vmin	361701.3	584.9	98.4	362521.7	584.9	98.4	361980.7	584.9	98.4	362485.0	584.9	98.4	361589.0	584.9	98.4
50%	Vmin	606338.0	584.8	98.4	604848.7	584.7	98.4	605267.7	584.8	98.4	605211.7	584.8	98.4	605041.3	584.8	98.4
75%	Vmin	905545.3	584.6	98.2	906684.0	584.6	98.2	906650.0	584.7	98.2	907578.0	584.6	98.2	906571.3	584.6	98.2
100%	Vmin	1208626.7	585.4	98.0	1206900.0	585.4	98.1	1206546.7	585.4	98.1	1208106.7	585.4	98.1	1205976.7	585.4	98.1
10%	Vnom	115112.3	650.7	98.0	115367.0	650.8	98.0	114896.0	650.8	98.0	115207.3	650.8	98.0	114944.3	650.8	98.0
20%	Vnom	241569.7	650.8	98.2	242279.0	650.8	98.2	241543.7	650.8	98.2	241336.7	650.8	98.2	241753.7	650.8	98.2
30%	Vnom	360258.0	651.7	98.2	361443.0	651.7	98.2	361261.7	651.7	98.2	361153.0	651.7	98.2	361417.0	651.7	98.2
50%	Vnom	603572.0	651.5	98.3	603024.7	651.6	98.2	606043.3	651.5	98.3	605103.7	651.6	98.3	604773.7	651.6	98.2
75%	Vnom	907949.0	651.4	98.1	908264.0	651.4	98.1	906472.0	651.4	98.1	909267.0	651.3	98.1	906718.7	651.4	98.1
100%	Vnom	1204263.3	651.3	97.9	1206830.0	651.3	97.9	1206853.3	651.2	97.9	1205536.7	651.3	97.9	1207906.7	651.2	97.9
10%	Vmax	115237.7	800.8	97.7	114992.3	800.7	97.7	114982.0	800.6	97.7	114876.3	800.6	97.7	114968.3	800.7	97.7
20%	Vmax	241566.0	800.7	97.9	240825.3	800.7	97.9	241670.7	800.7	97.9	241368.3	800.7	97.9	241718.0	800.7	97.9
30%	Vmax	362840.7	800.5	97.9	363030.0	800.6	97.9	364430.0	800.5	97.9	362381.0	800.6	97.9	362911.3	800.6	97.9
50%	Vmax	600695.3	800.6	98.0	600514.3	800.5	98.0	602545.3	800.5	98.0	601164.0	800.6	98.0	600934.0	800.5	98.0
75%	Vmax	905855.7	800.4	97.9	906589.7	800.5	97.9	903662.0	800.5	97.9	906856.7	800.4	97.9	906283.7	800.4	97.9
100%	Vmax	1206053.3	801.3	97.7	1206126.7	801.2	97.7	1204020.0	801.3	97.7	1206210.0	801.3	97.7	1209230.0	801.2	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	115543.7	584.1	98.1	115551.7	584.1	98.1									
20%	Vmin	242452.7	584.0	98.3	241682.7	584.1	98.3									
30%	Vmin	362638.0	584.9	98.4	362657.0	584.9	98.4									
50%	Vmin	604596.7	584.7	98.4	606004.7	584.7	98.4									
75%	Vmin	906624.0	584.6	98.2	908020.3	584.6	98.2									
100%	Vmin	1208726.7	585.4	98.1	1207173.3	585.4	98.1									
10%	Vnom	115123.7	650.8	98.0	114949.0	650.8	98.0									
20%	Vnom	240902.3	650.8	98.2	241544.7	650.9	98.2									
30%	Vnom	361832.0	651.6	98.2	361218.3	651.6	98.3									
50%	Vnom	604383.7	651.5	98.2	606100.7	651.5	98.3									
75%	Vnom	906321.7	651.3	98.1	907989.0	651.3	98.1									
100%	Vnom	1206683.3	651.2	97.9	1204683.3	651.3	97.9									
10%	Vmax	114801.7	800.6	97.7	115214.7	800.6	97.7									
20%	Vmax	241862.0	800.7	97.9	241030.0	800.7	97.9									
30%	Vmax	363770.3	800.5	97.9	363224.0	800.6	97.9									
50%	Vmax	604478.0	800.5	98.0	601390.7	800.5	98.0									
75%	Vmax	905784.0	800.4	97.9	908705.3	800.4	97.9									
100%	Vmax	1205690.0	801.2	97.7	1207913.3	801.3	97.7									