Manufacturer: Power Electronics

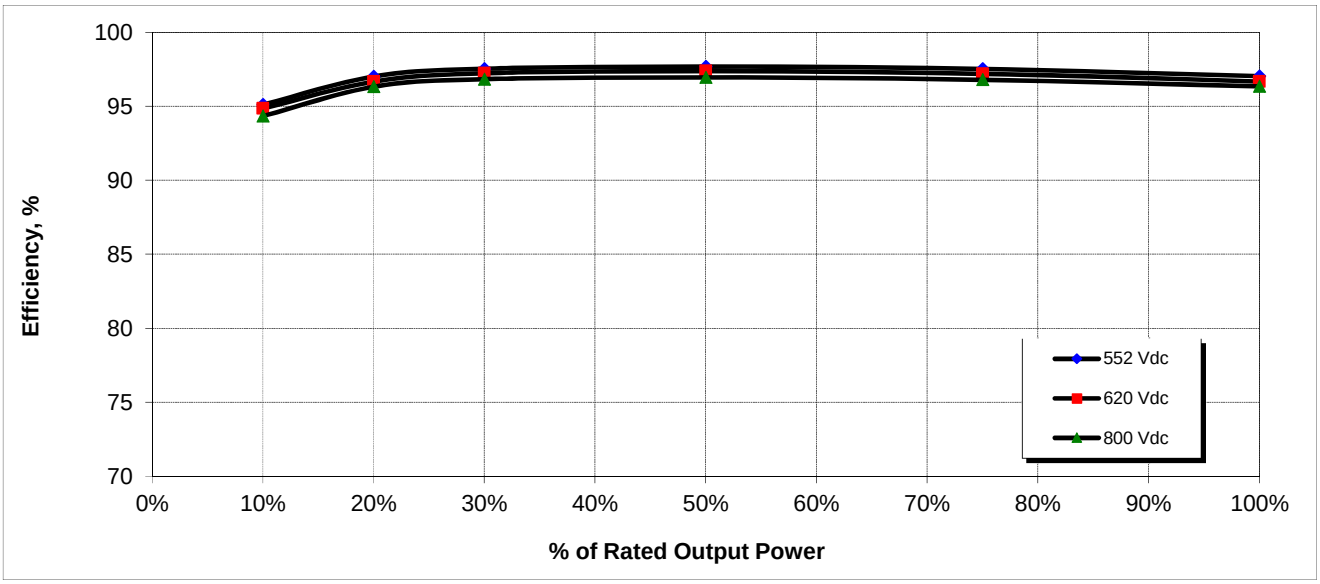
Model #: FS0600CU (390Vac)

Rated Maximum Continuous Output Power: 680.0 kW Night Tare Loss: -249 W

Vmin: 552 Vdc Vnom: 620 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		68.00	136.00	204.00	340.00	510.00	680.00	Wtd
Vmin	552	95.1	97.0	97.5	97.7	97.5	97.0	97.4
Vnom	620	94.9	96.7	97.2	97.4	97.2	96.7	97.1
Vmax	800	94.3	96.3	96.8	97.0	96.8	96.4	96.7

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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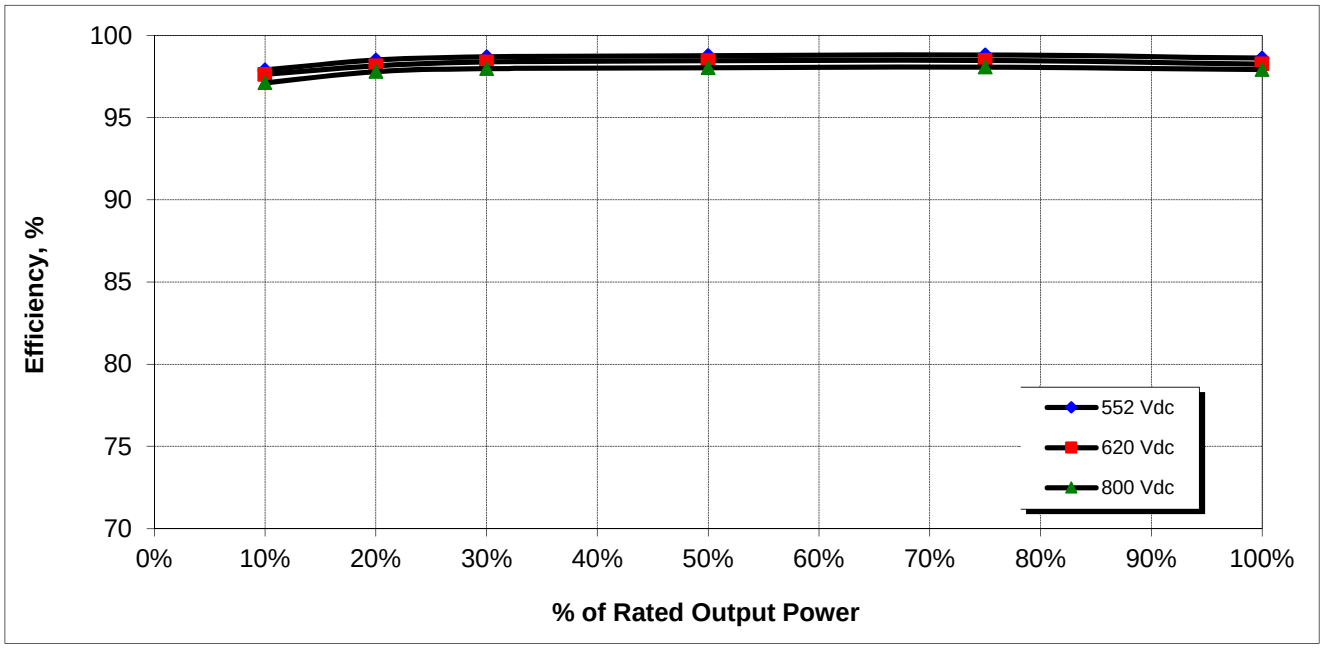
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		68.00	136.00	204.00	340.00	510.00	680.00	Wtd
Vmin	552	97.9	98.5	98.7	98.8	98.8	98.6	98.7
Vnom	620	97.6	98.2	98.4	98.5	98.5	98.3	98.4
Vmax	800	97.1	97.8	98.0	98.0	98.1	97.9	98.0

Inverter Efficiency only = 98.5%



680KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		68.00	136.00	204.00	340.00	510.00	680.00	Wtd
Vmin	552	97.15	98.49	98.83	98.90	98.70	98.39	98.67
Vnom	620	97.15	98.49	98.83	98.90	98.70	98.39	98.67
Vmax	800	97.15	98.49	98.83	98.90	98.70	98.39	98.67

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	66023.5	554.6	97.9	66287.9	554.6	97.9	66237.7	554.6	97.9	65967.3	554.5	97.9	66048.0	554.5	97.9
20%	Vmin	140329.3	553.5	98.5	140919.0	553.6	98.5	140657.3	553.5	98.5	140333.7	553.6	98.5	140531.3	553.6	98.5
30%	Vmin	208734.7	553.4	98.7	209152.3	553.4	98.7	208825.7	553.4	98.7	208516.0	553.3	98.7	208468.0	553.5	98.7
50%	Vmin	348346.7	554.2	98.8	347852.3	554.2	98.8	347502.0	554.2	98.8	348631.7	554.2	98.8	348500.3	554.2	98.8
75%	Vmin	523570.3	552.1	98.8	521970.7	552.1	98.8	523687.3	552.0	98.8	524297.3	552.1	98.8	522134.0	552.0	98.8
100%	Vmin	693255.0	553.6	98.6	691277.3	553.7	98.6	692809.7	553.6	98.6	691018.7	553.7	98.6	693481.7	553.6	98.6
10%	Vnom	66047.1	622.5	97.6	66021.4	622.5	97.6	66382.3	622.5	97.6	66210.0	622.5	97.8	65905.8	622.5	97.7
20%	Vnom	140226.7	622.4	98.1	139978.7	622.5	98.2	139955.3	622.5	98.2	140249.0	622.5	98.1	140106.3	622.4	98.2
30%	Vnom	208047.0	622.4	98.4	207561.7	622.4	98.4	207437.0	622.4	98.4	208159.3	622.5	98.4	208198.7	622.4	98.4
50%	Vnom	349279.3	622.2	98.5	346579.7	622.2	98.5	348013.7	622.3	98.5	348867.3	622.2	98.5	347248.3	622.3	98.5
75%	Vnom	525210.0	622.1	98.5	522205.0	622.1	98.5	523509.7	622.0	98.5	523850.7	622.1	98.5	521360.7	622.0	98.5
100%	Vnom	693245.7	621.8	98.3	691080.3	621.7	98.3	693707.0	621.7	98.3	691173.7	621.7	98.3	693205.3	621.8	98.3
10%	Vmax	66052.3	799.6	97.2	65741.1	799.7	97.1	66066.1	799.6	97.1	65904.7	799.6	97.1	66188.6	799.7	97.1
20%	Vmax	140499.7	799.7	97.8	140521.0	799.6	97.8	140787.3	799.7	97.8	140940.3	799.6	97.8	140683.7	799.6	97.8
30%	Vmax	207495.0	799.6	98.0	208431.3	799.5	98.0	208401.7	799.6	98.0	207722.0	799.6	98.0	207842.0	799.6	98.0
50%	Vmax	346405.0	799.6	98.0	345818.0	799.6	98.0	348490.3	799.6	98.0	345940.3	799.6	98.0	345986.7	799.6	98.0
75%	Vmax	527474.7	799.3	98.1	522884.7	799.4	98.1	525000.3	799.3	98.1	526007.7	799.4	98.1	522179.0	799.4	98.1
100%	Vmax	692287.0	799.2	97.9	692836.7	799.1	97.9	691467.7	799.2	97.9	694110.0	799.1	97.9	689823.7	799.2	97.9

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	66108.9	554.5	97.9	65939.6	554.5	97.9									
20%	Vmin	140447.7	553.5	98.5	140683.3	553.5	98.5									
30%	Vmin	208708.0	553.4	98.7	208851.3	553.4	98.7									
50%	Vmin	347533.7	554.2	98.8	348166.7	554.3	98.8									
75%	Vmin	523545.0	552.1	98.8	523235.0	552.0	98.8									
100%	Vmin	690982.3	553.7	98.6	693106.3	553.7	98.6									
10%	Vnom	66039.9	622.5	97.6	66013.0	622.5	97.6									
20%	Vnom	140010.0	622.5	98.2	140270.0	622.5	98.1									
30%	Vnom	207701.7	622.4	98.4	207363.0	622.4	98.4									
50%	Vnom	348087.0	622.2	98.5	349300.7	622.2	98.5									
75%	Vnom	524812.3	622.0	98.5	522876.0	622.2	98.5									
100%	Vnom	691393.3	621.8	98.3	693732.0	621.7	98.3									
10%	Vmax	66193.3	799.7	97.1	65853.6	799.6	97.1									
20%	Vmax	140395.7	799.7	97.8	140478.7	799.5	97.8									
30%	Vmax	209136.7	799.6	98.0	208416.3	799.6	98.0									
50%	Vmax	348054.0	799.5	98.0	345487.0	799.6	98.0									
75%	Vmax	527403.0	799.3	98.1	524075.0	799.4	98.1									
100%	Vmax	695647.0	799.1	97.9	689690.7	799.1	97.9									