Manufacturer: Power Electronics

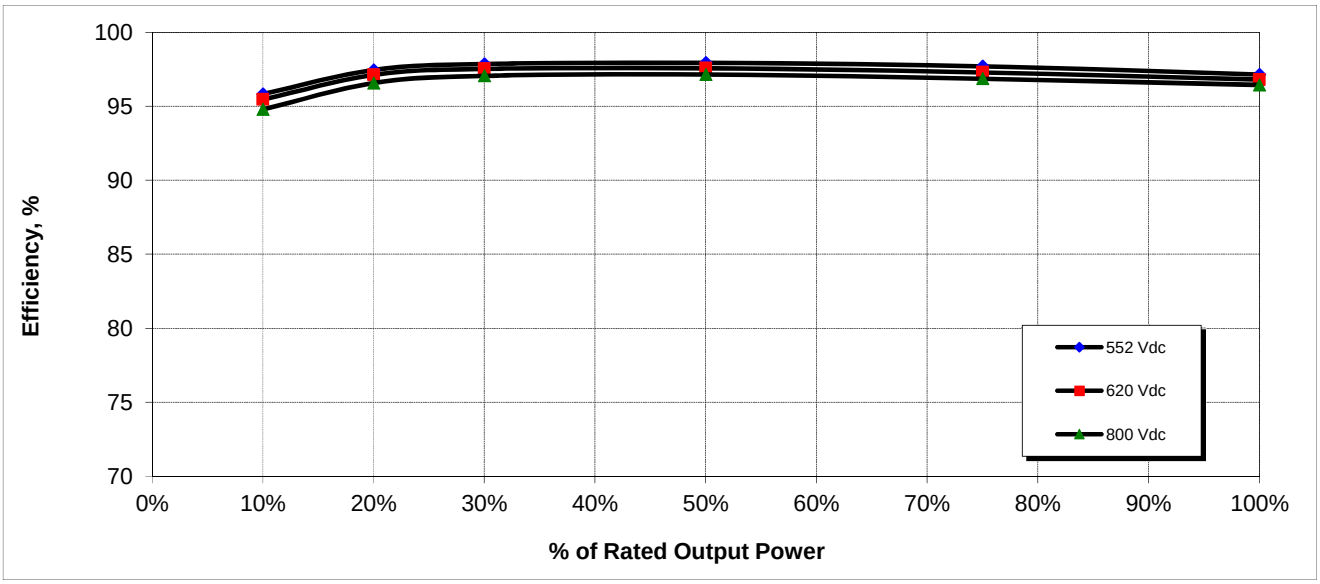
Model #: FS0900CU (390Vac)

Rated Maximum Continuous Output Power: 1020.0 kW Night Tare Loss: -276 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		102.00	204.00	306.00	510.00	765.00	1020.00	Wtd
Vmin	552	95.8	97.5	97.9	97.9	97.7	97.2	97.7
Vnom	620	95.5	97.1	97.5	97.6	97.3	96.8	97.3
Vmax	800	94.8	96.6	97.1	97.2	96.9	96.4	96.8

CEC Efficiency of Inverter and MV TP1 Transformer = 97.5%



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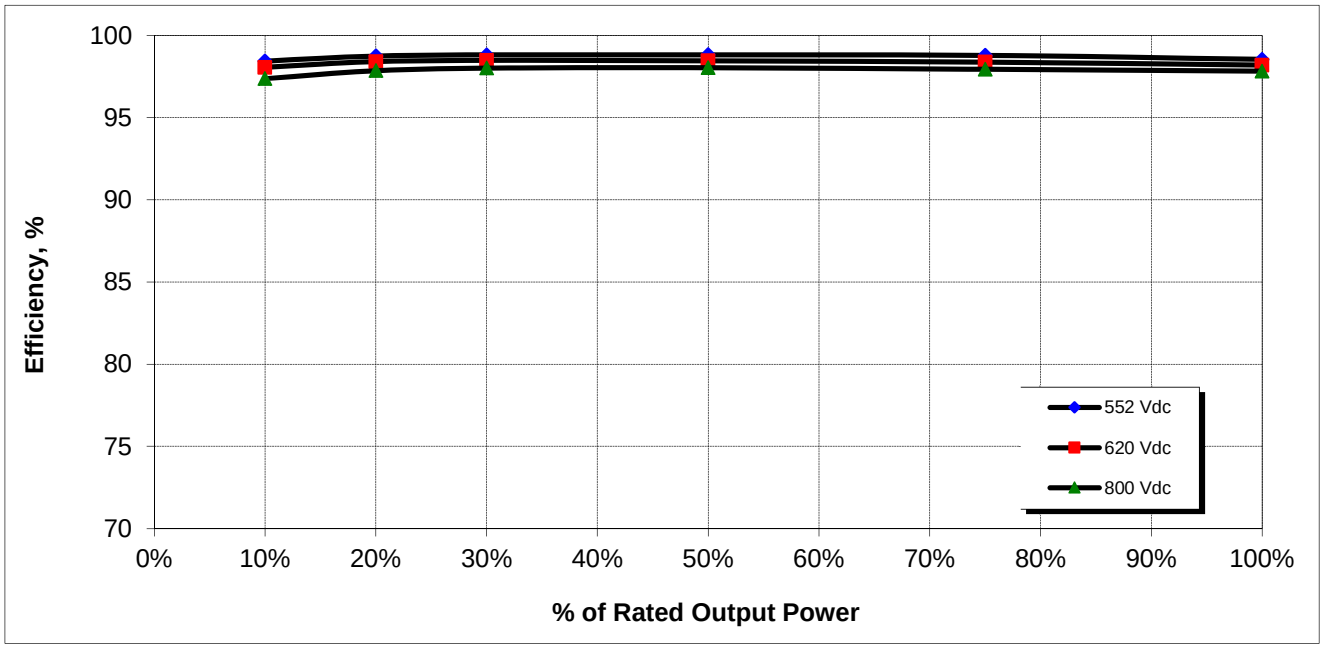
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		102.00	204.00	306.00	510.00	765.00	1020.00	Wtd
Vmin	552	98.4	98.8	98.8	98.8	98.8	98.5	98.8
Vnom	620	98.1	98.4	98.5	98.5	98.4	98.2	98.4
Vmax	800	97.4	97.9	98.0	98.0	97.9	97.8	97.9

Inverter Efficiency only = 98.5%



1020KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		102.00	204.00	306.00	510.00	765.00	1020.00	Wtd
Vmin	552	97.35	98.69	99.03	99.1	98.9	98.59	98.87
Vnom	620	97.35	98.69	99.03	99.1	98.9	98.59	98.87
Vmax	800	97.35	98.69	99.03	99.1	98.9	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	100238.5	554.9	98.4	100379.7	554.9	98.5	100232.0	554.8	98.4	100409.0	555.0	98.5	100818.7	554.9	98.5
20%	Vmin	209464.7	554.8	98.7	209440.0	554.8	98.8	210338.7	554.8	98.8	210400.0	554.8	98.8	209639.0	554.8	98.8
30%	Vmin	318149.0	554.7	98.8	317071.7	554.6	98.8	318079.3	554.6	98.8	317719.0	554.6	98.8	317613.3	554.7	98.8
50%	Vmin	533276.3	554.4	98.8	532601.3	554.4	98.8	533647.7	554.3	98.8	534874.3	554.4	98.8	532943.3	554.3	98.8
75%	Vmin	784142.7	554.1	98.8	786665.3	554.0	98.8	785278.0	554.0	98.8	785402.0	554.1	98.8	785739.3	553.9	98.8
100%	Vmin	1051506.7	553.6	98.6	1050676.7	553.5	98.6	1049530.0	553.6	98.5	1051563.3	553.4	98.5	1050106.7	553.6	98.5
10%	Vnom	100028.3	622.9	98.0	100363.5	623.0	98.1	100631.3	623.0	98.1	100332.7	622.9	98.1	100129.9	622.9	98.0
20%	Vnom	209662.3	622.9	98.4	209085.3	623.0	98.4	209913.3	622.9	98.4	209628.3	622.9	98.4	208967.3	622.9	98.4
30%	Vnom	318172.7	622.7	98.5	316418.0	622.7	98.5	317019.7	622.7	98.5	318229.3	622.7	98.5	316293.3	622.7	98.5
50%	Vnom	533527.0	622.4	98.4	530191.7	622.5	98.4	532586.0	622.5	98.5	530903.0	622.5	98.5	532013.3	622.5	98.5
75%	Vnom	784541.0	622.1	98.4	779547.3	622.2	98.4	786030.7	622.1	98.4	780500.3	622.2	98.4	784861.3	622.2	98.4
100%	Vnom	1051876.7	621.7	98.2	1047073.3	621.8	98.2	1052433.3	621.7	98.2	1046646.7	621.7	98.2	1051920.0	621.8	98.2
10%	Vmax	100440.7	799.3	97.3	100161.4	799.3	97.3	99810.0	799.2	97.3	99942.1	799.3	97.3	100398.6	799.3	97.3
20%	Vmax	209703.7	799.2	97.9	208448.0	799.2	97.8	210032.0	799.2	97.8	209093.7	799.2	97.9	208637.3	799.1	97.9
30%	Vmax	312076.7	799.2	98.0	312159.7	799.2	98.0	314231.0	799.2	98.0	310855.7	799.1	98.0	313744.3	799.3	98.0
50%	Vmax	528087.7	798.0	98.0	530503.3	798.1	98.0	526986.0	798.0	98.0	531928.0	798.0	98.0	526757.0	798.0	98.0
75%	Vmax	775773.0	799.8	97.9	779806.7	799.9	97.9	777750.0	799.7	97.9	778580.3	799.9	97.9	779759.7	799.6	97.9
100%	Vmax	1042933.3	799.7	97.8	1048243.3	799.3	97.8	1040896.7	799.6	97.8	1050183.3	799.4	97.8	1039333.3	799.5	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	100494.9	555.0	98.5	100334.6	555.0	98.4									
20%	Vmin	209897.3	554.8	98.7	209892.7	554.8	98.8									
30%	Vmin	318775.3	554.6	98.8	317422.0	554.6	98.8									
50%	Vmin	534989.3	554.3	98.8	532982.0	554.4	98.8									
75%	Vmin	786626.3	554.0	98.8	785941.0	554.0	98.8									
100%	Vmin	1052176.7	553.5	98.5	1048823.3	553.6	98.5									
10%	Vnom	100286.0	623.0	98.0	100328.7	622.9	98.0									
20%	Vnom	210168.0	622.9	98.4	210140.0	622.9	98.4									
30%	Vnom	317592.3	622.7	98.5	317559.0	622.7	98.5									
50%	Vnom	532855.0	622.5	98.5	530651.3	622.5	98.5									
75%	Vnom	780585.7	622.2	98.4	785190.7	622.2	98.4									
100%	Vnom	1048120.0	621.7	98.2	1048646.7	621.8	98.2									
10%	Vmax	100246.8	799.3	97.5	100185.4	799.3	97.7									
20%	Vmax	210357.7	799.3	97.8	209609.3	799.2	97.9									
30%	Vmax	312255.3	799.3	98.0	311832.0	799.2	97.9									
50%	Vmax	532026.0	798.1	98.0	526444.3	798.1	98.0									
75%	Vmax	775814.0	799.9	97.9	782221.0	799.7	98.0									
100%	Vmax	1050596.7	799.4	97.8	1041303.3	799.5	97.8									