Manufacturer: Power Electronics

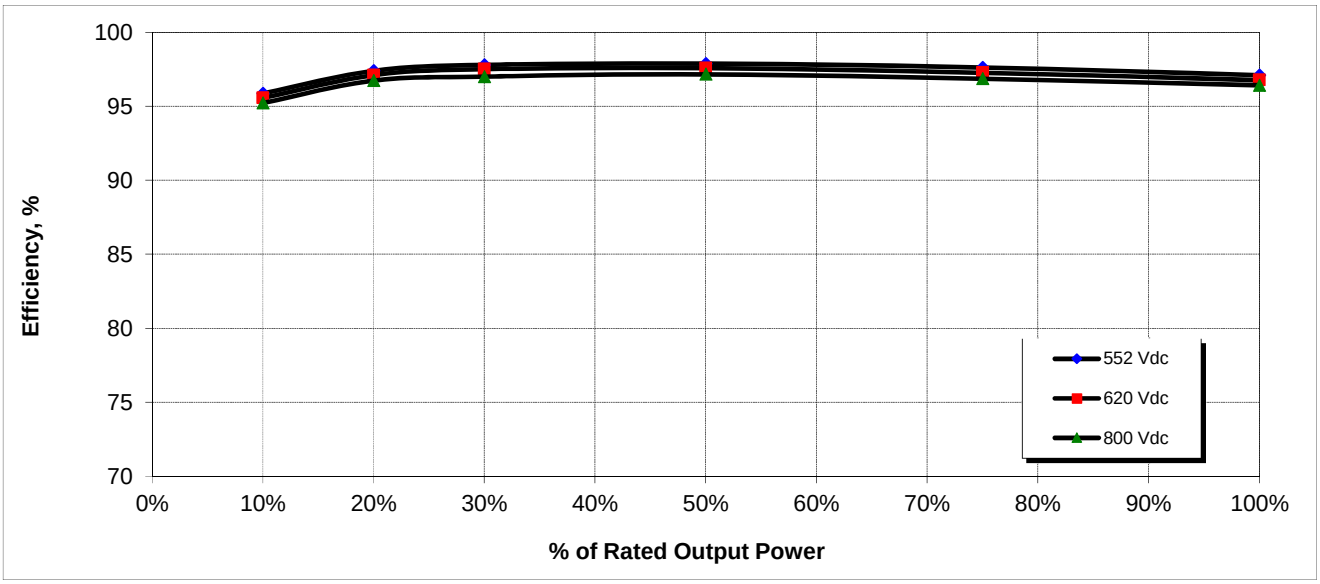
Model #: FS0751CU (390Vac)

Rated Maximum Continuous Output Power: 850.0 kW Night Tare Loss: -260 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		85.00	170.00	255.00	425.00	637.50	850.00	Wtd
Vmin	552	95.9	97.4	97.8	97.9	97.6	97.1	97.6
Vnom	620	95.6	97.1	97.5	97.6	97.3	96.8	97.3
Vmax	800	95.2	96.7	97.0	97.2	96.9	96.4	96.9

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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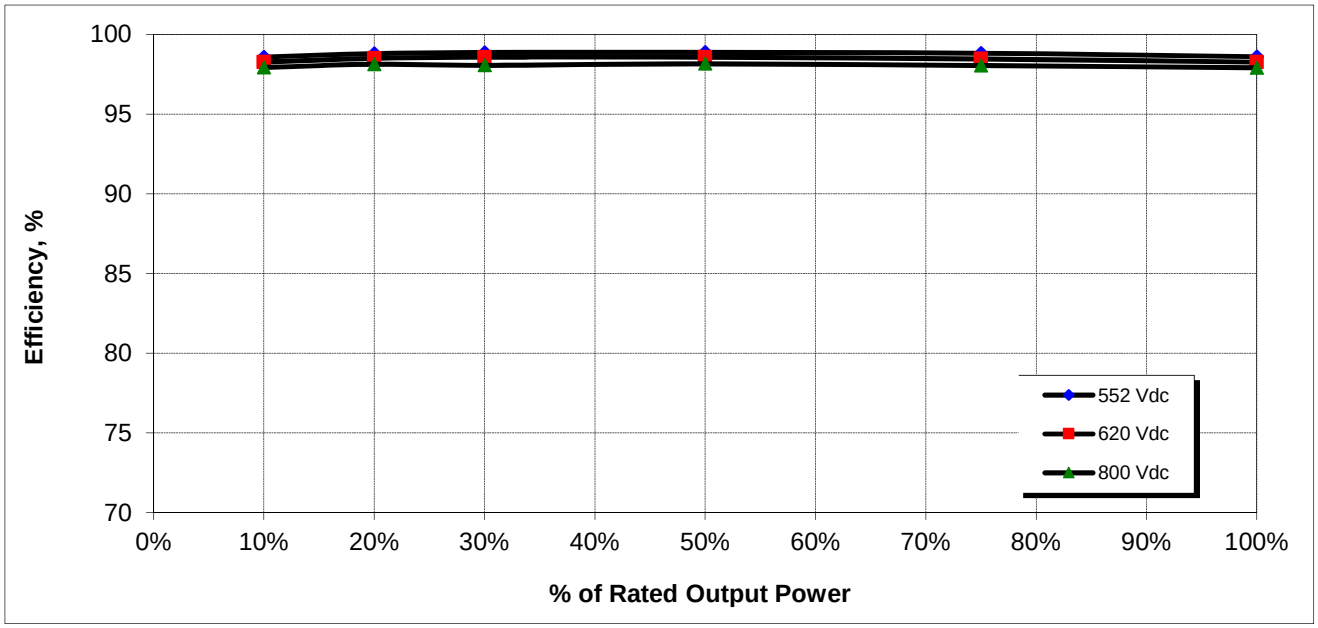
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		85.00	170.00	255.00	425.00	637.50	850.00	Wtd
Vmin	552	98.6	98.8	98.9	98.9	98.8	98.6	98.8
Vnom	620	98.3	98.5	98.6	98.6	98.5	98.3	98.5
Vmax	800	97.9	98.1	98.1	98.2	98.0	97.9	98.1

Inverter Efficiency only = 98.5%



850KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		85.00	170.00	255.00	425.00	637.50	850.00	Wtd
Vmin	552	97.25	98.59	98.93	99.0	98.8	98.49	98.77
Vnom	620	97.25	98.59	98.93	99.0	98.8	98.49	98.77
Vmax	800	97.25	98.59	98.93	99.0	98.8	98.49	98.77

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	83961.3	554.5	98.6	83938.0	554.5	98.5	84032.2	554.5	98.6	84077.5	554.5	98.6	84403.7	554.5	98.6
20%	Vmin	173152.0	552.5	98.8	172555.3	552.4	98.8	173281.0	552.4	98.8	173147.3	552.4	98.8	172779.3	552.4	98.8
30%	Vmin	264834.7	554.3	98.9	266377.7	554.2	98.9	265258.7	554.3	98.9	265329.7	554.2	98.9	265753.3	554.3	98.9
50%	Vmin	437014.3	553.9	98.9	436874.3	553.9	98.9	436460.7	553.9	98.9	438564.3	553.8	98.9	436915.3	553.8	98.9
75%	Vmin	657348.7	553.5	98.8	656238.3	553.5	98.8	656098.3	553.5	98.8	656036.3	553.5	98.8	655351.3	553.5	98.8
100%	Vmin	871005.0	553.1	98.6	872921.7	553.2	98.6	871849.0	553.2	98.6	873523.3	553.1	98.6	872492.0	553.1	98.6
10%	Vnom	81988.4	622.4	98.3	82269.4	622.4	98.2	81978.8	622.4	98.2	82422.1	622.4	98.3	82383.8	622.4	98.4
20%	Vnom	174563.0	622.2	98.5	174468.3	622.3	98.5	174261.0	622.3	98.5	173997.3	622.3	98.5	174571.3	622.3	98.5
30%	Vnom	265457.7	622.1	98.6	264141.3	622.2	98.6	265454.3	622.2	98.6	264951.7	622.2	98.6	263852.3	622.2	98.6
50%	Vnom	434687.0	621.9	98.6	434895.0	621.8	98.6	437285.7	621.9	98.6	436032.7	621.9	98.6	435019.0	621.9	98.6
75%	Vnom	653605.0	621.6	98.4	655726.3	621.5	98.4	654141.7	621.5	98.4	654033.3	621.5	98.5	653101.7	621.6	98.5
100%	Vnom	872320.3	621.1	98.3	871479.3	621.2	98.3	870245.0	621.2	98.3	872097.7	621.2	98.3	871206.7	621.2	98.3
10%	Vmax	81738.8	799.5	97.9	82589.9	799.5	97.9	82011.8	799.5	97.8	82286.1	799.4	98.0	82213.6	799.5	98.2
20%	Vmax	174861.7	799.4	98.1	174018.3	799.4	98.2	175066.7	799.4	98.1	173710.0	799.3	98.1	174266.7	799.4	98.1
30%	Vmax	265345.7	799.2	98.0	262903.3	799.2	98.0	264290.3	799.3	98.0	265450.3	799.3	98.0	263111.3	799.3	98.1
50%	Vmax	435978.7	799.0	98.1	433196.3	799.0	98.1	432552.3	799.1	98.1	434515.3	799.0	98.1	435042.7	799.0	98.2
75%	Vmax	654632.7	798.8	98.0	655048.3	798.8	98.0	654978.7	798.8	98.0	653293.3	798.7	98.0	652841.7	798.8	98.0
100%	Vmax	867369.0	798.5	97.9	867347.0	798.5	97.9	866811.3	798.6	97.9	868368.3	798.6	97.9	867510.7	798.6	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	83928.0	554.5	98.5	83572.1	554.5	98.6									
20%	Vmin	172666.0	552.3	98.8	172784.7	552.4	98.8									
30%	Vmin	265552.3	554.3	98.9	265793.3	554.3	98.9									
50%	Vmin	436419.7	553.9	98.9	438064.0	553.9	98.9									
75%	Vmin	657168.0	553.5	98.8	656367.0	553.5	98.8									
100%	Vmin	874051.3	553.1	98.6	872879.7	553.2	98.6									
10%	Vnom	81951.8	622.4	98.3	82301.5	622.4	98.2									
20%	Vnom	174295.3	622.3	98.5	174348.0	622.3	98.5									
30%	Vnom	266465.3	622.2	98.6	264405.7	622.2	98.6									
50%	Vnom	435592.0	621.9	98.6	435943.0	621.9	98.6									
75%	Vnom	652833.0	621.5	98.5	654202.3	621.5	98.5									
100%	Vnom	872964.0	621.2	98.3	871653.3	621.2	98.3									
10%	Vmax	82275.4	799.5	97.9	82656.1	799.5	97.9									
20%	Vmax	174219.0	799.4	98.2	174558.7	799.4	98.1									
30%	Vmax	264703.0	799.2	98.1	265581.3	799.2	98.1									
50%	Vmax	436067.3	799.1	98.2	433637.7	799.1	98.2									
75%	Vmax	653934.3	798.8	98.0	653219.3	798.8	98.1									
100%	Vmax	869847.7	798.6	97.9	869218.3	798.5	97.9									