Manufacturer: Power Electronics

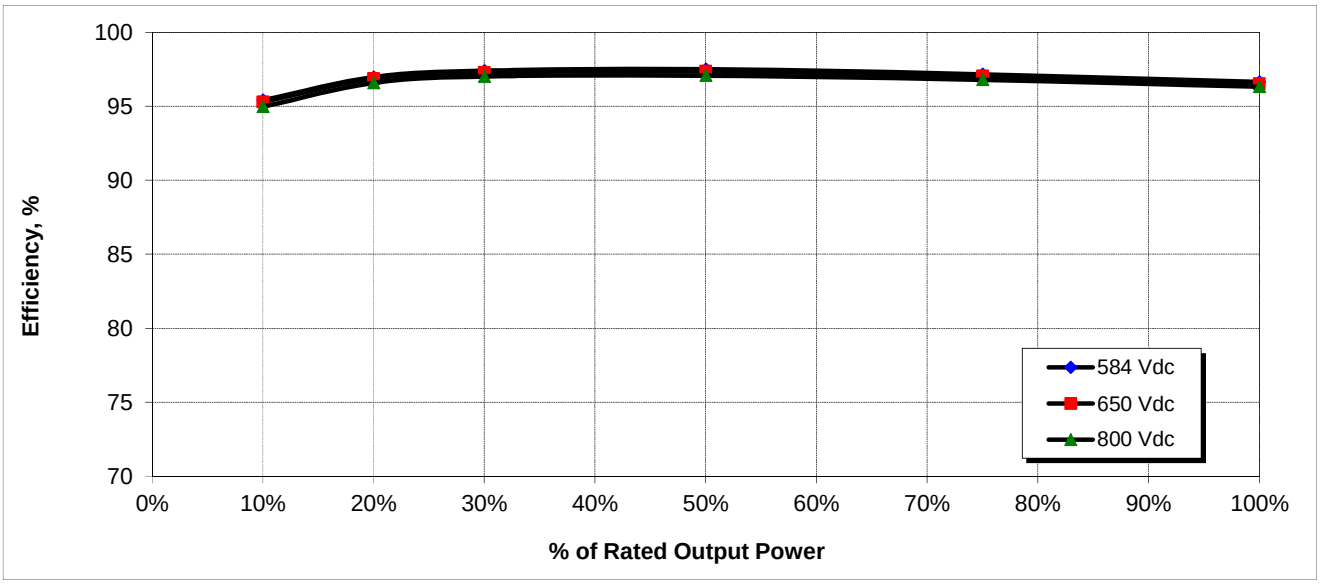
Model #: FS0901CU (400Vac)

Rated Maximum Continuous Output Power: 1000.0 kW Night Tare Loss: -266 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		100.00	200.00	300.00	500.00	750.00	1000.00	Wtd
Vmin	584	95.4	97.0	97.4	97.5	97.2	96.6	97.2
Vnom	650	95.3	96.9	97.3	97.4	97.0	96.5	97.0
Vmax	800	95.0	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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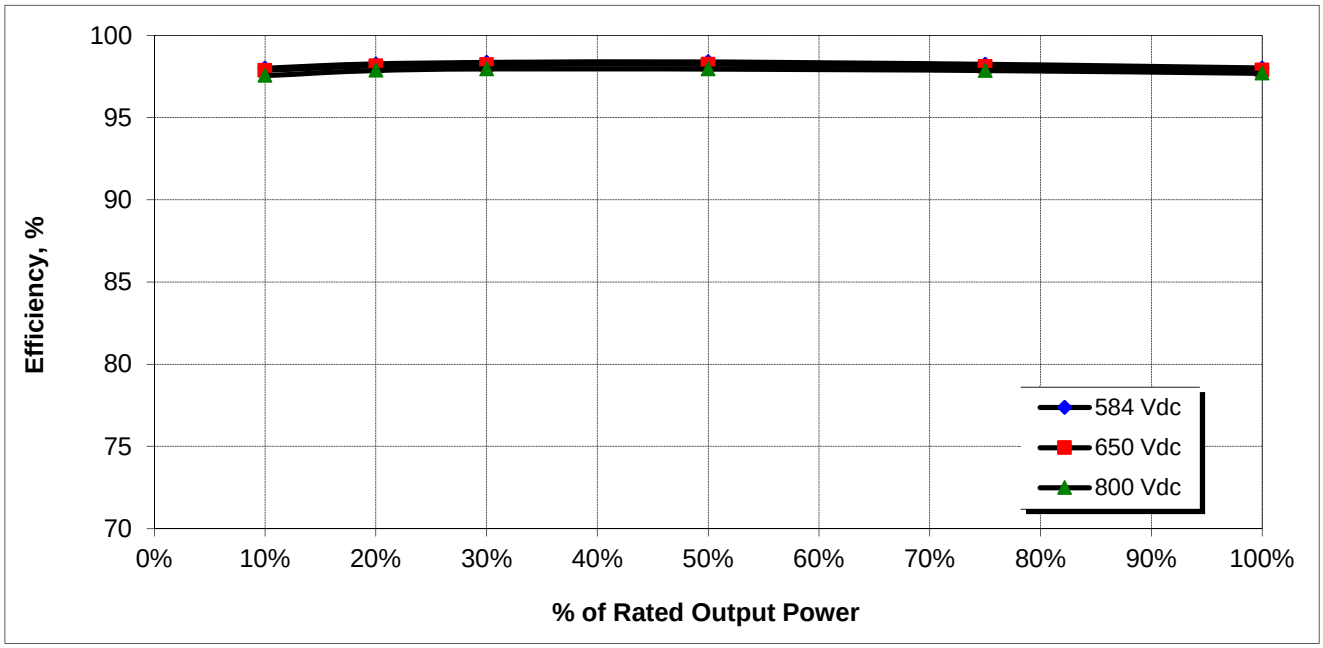
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		100.00	200.00	300.00	500.00	750.00	1000.00	Wtd
Vmin	584	98.0	98.3	98.4	98.4	98.2	98.0	98.3
Vnom	650	97.9	98.2	98.2	98.2	98.1	97.9	98.1
Vmax	800	97.6	97.9	98.0	98.0	97.9	97.7	97.9

Inverter Efficiency only = 98.0%



1000KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		100.00	200.00	300.00	500.00	750.00	1000.00	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	96639.5	584.2	98.0	96808.0	584.1	98.0	96883.3	584.1	98.0	96704.3	584.2	98.0	96516.3	584.1	98.0
20%	Vmin	210800.0	584.9	98.3	211191.3	584.9	98.3	210079.3	584.9	98.3	210766.7	584.9	98.3	210594.0	584.9	98.3
30%	Vmin	307982.0	585.6	98.4	308021.3	585.6	98.4	308178.0	585.6	98.4	307940.3	585.6	98.4	307425.7	585.6	98.4
50%	Vmin	512238.7	584.5	98.4	511823.3	584.4	98.4	510701.7	584.5	98.4	513230.3	584.5	98.4	509401.7	584.5	98.4
75%	Vmin	760929.7	584.2	98.2	759308.0	584.3	98.2	761365.7	584.2	98.2	759703.3	584.3	98.2	760867.3	584.3	98.2
100%	Vmin	1006740.0	584.2	98.0	1006333.3	584.2	98.0	1006630.0	584.2	98.0	1006566.7	584.2	98.0	1006830.0	584.2	98.0
10%	Vnom	96707.5	650.8	97.9	96738.4	650.8	97.9	96409.2	650.8	97.9	96714.9	650.8	97.9	96651.7	650.8	97.9
20%	Vnom	209592.3	650.7	98.2	210373.7	650.6	98.1	209377.7	650.7	98.2	210202.7	650.7	98.2	210554.3	650.7	98.1
30%	Vnom	308457.0	650.3	98.2	307367.7	650.3	98.2	308636.0	650.3	98.2	307502.7	650.3	98.2	307467.3	650.4	98.2
50%	Vnom	509856.0	650.1	98.2	508753.0	650.2	98.2	508542.3	650.2	98.2	509596.3	650.2	98.2	508612.0	650.3	98.2
75%	Vnom	759174.3	650.1	98.1	758845.7	650.0	98.1	758451.0	650.1	98.1	758865.7	650.1	98.1	757935.7	650.1	98.1
100%	Vnom	1005266.7	650.0	97.9	1004816.7	650.1	97.9	1005323.3	650.0	97.9	1006553.3	650.1	97.9	1006580.0	650.0	97.9
10%	Vmax	96623.3	800.6	97.6	96599.4	800.7	97.6	96453.5	800.7	97.5	97010.0	800.7	97.6	96512.6	800.7	97.6
20%	Vmax	209928.3	800.4	97.9	209910.7	800.4	97.9	209587.3	800.4	97.9	210009.7	800.4	97.9	209719.0	800.5	97.9
30%	Vmax	307257.3	800.1	98.0	307029.3	800.1	98.0	306325.3	800.1	98.0	306585.3	800.1	98.0	307982.3	800.0	98.0
50%	Vmax	508155.0	801.0	98.0	509142.3	800.9	98.0	508020.0	801.0	98.0	508454.0	800.8	98.0	508388.0	800.9	98.0
75%	Vmax	755961.3	801.0	97.9	759496.3	800.9	97.9	757480.0	800.9	97.9	759984.3	800.9	97.9	757294.7	800.9	97.9
100%	Vmax	994533.7	800.0	97.7	992629.3	800.1	97.7	993184.7	800.0	97.7	992748.7	799.9	97.7	993153.7	800.0	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	96850.0	584.1	98.0	96763.1	584.1	98.0									
20%	Vmin	210720.0	584.9	98.3	210036.7	584.9	98.3									
30%	Vmin	307618.0	585.7	98.4	307942.0	585.7	98.4									
50%	Vmin	510764.7	584.4	98.4	510678.3	584.5	98.4									
75%	Vmin	759839.0	584.3	98.2	759941.0	584.4	98.3									
100%	Vmin	1008520.0	584.2	98.0	1008930.0	584.2	98.0									
10%	Vnom	96551.3	650.8	97.9	96918.2	650.8	97.9									
20%	Vnom	209945.7	650.7	98.1	210501.7	650.6	98.2									
30%	Vnom	307785.0	650.3	98.2	308752.3	650.3	98.2									
50%	Vnom	509081.0	650.3	98.2	508067.7	650.2	98.2									
75%	Vnom	759450.7	650.1	98.1	759312.0	650.1	98.1									
100%	Vnom	1007853.3	650.0	97.9	1006033.3	650.0	97.9									
10%	Vmax	96542.1	800.7	97.6	96388.6	800.7	97.6									
20%	Vmax	209451.7	800.5	97.9	209707.7	800.5	97.9									
30%	Vmax	306835.0	800.0	98.0	306456.7	800.0	98.0									
50%	Vmax	509199.7	800.9	98.0	506993.7	801.0	98.0									
75%	Vmax	760411.3	800.9	97.9	759743.0	800.9	97.9									
100%	Vmax	992524.7	800.0	97.7	994458.7	799.9	97.7									