Manufacturer: Power Electronics

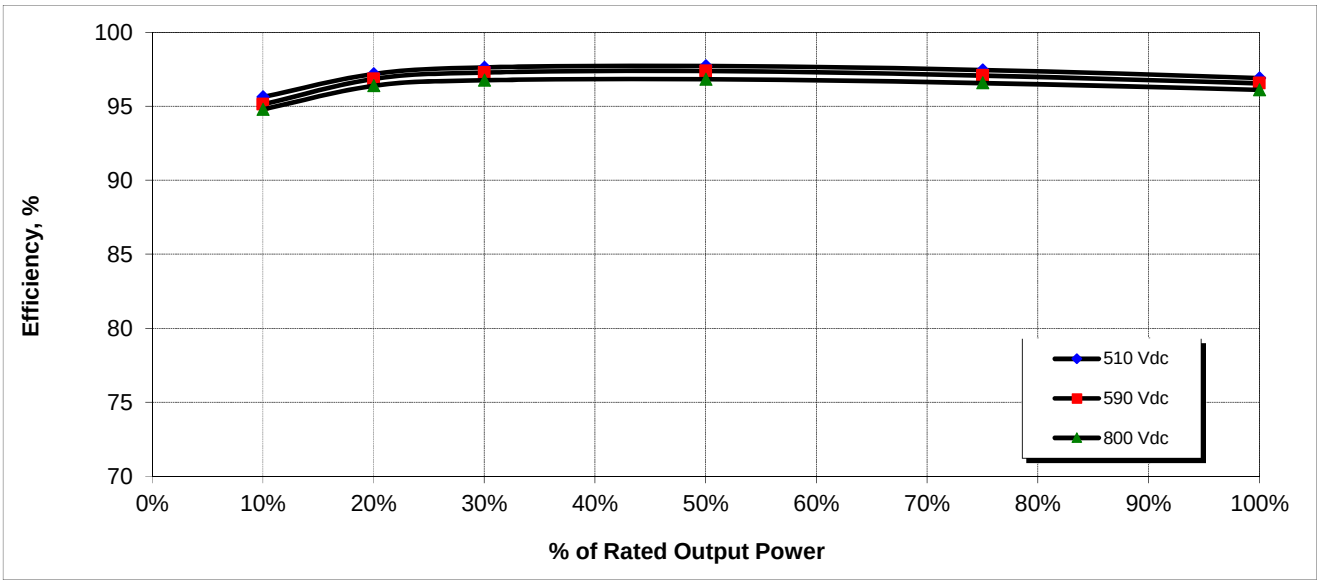
Model #: FS0830CU (360Vac)

Rated Maximum Continuous Output Power: 930.0 kW Night Tare Loss: -295 W

Vmin: 510 Vdc Vnom: 590 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		93.00	186.00	279.00	465.00	697.50	930.00	Wtd
Vmin	510	95.6	97.2	97.6	97.7	97.5	96.9	97.4
Vnom	590	95.1	96.9	97.3	97.4	97.1	96.6	97.1
Vmax	800	94.8	96.4	96.8	96.8	96.6	96.1	96.6

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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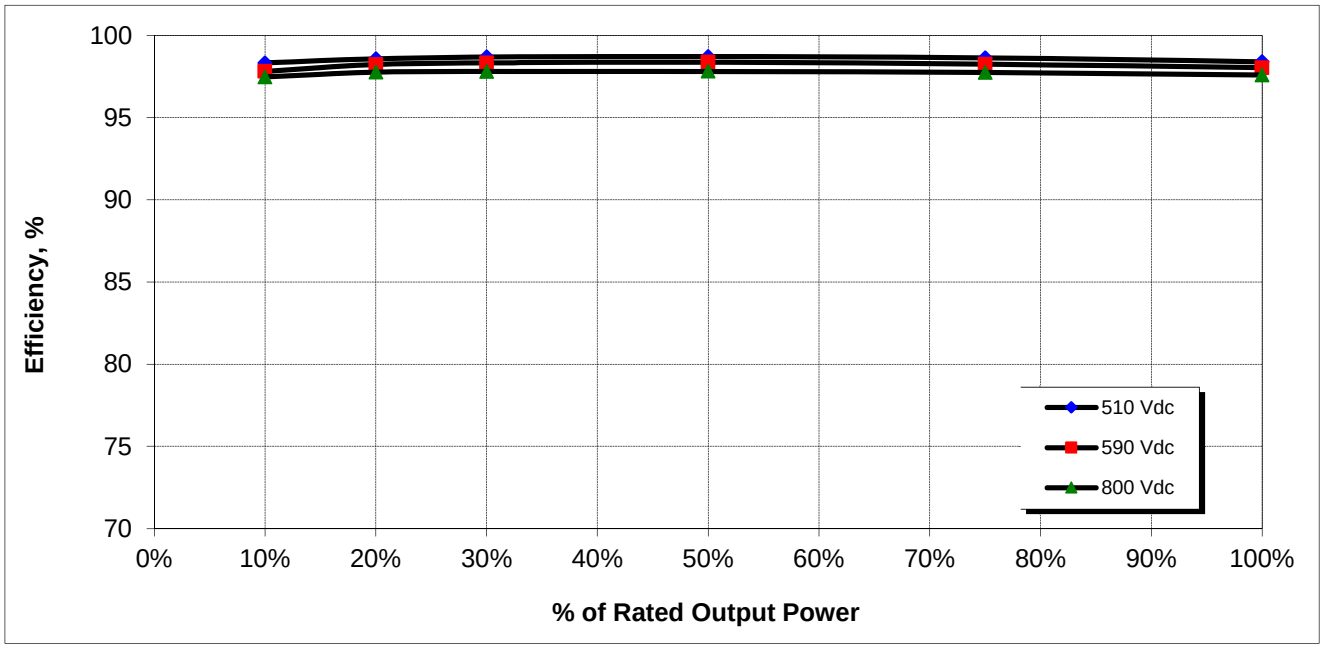
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		93.00	186.00	279.00	465.00	697.50	930.00	Wtd
Vmin	510	98.3	98.6	98.7	98.7	98.6	98.4	98.6
Vnom	590	97.8	98.2	98.3	98.4	98.3	98.0	98.3
Vmax	800	97.5	97.8	97.8	97.8	97.8	97.6	97.8

Inverter Efficiency only = 98.0%



930KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		93.00	186.00	279.00	465.00	697.50	930.00	Wtd
Vmin	510	97.25	98.59	98.93	99	98.8	98.49	98.77
Vnom	590	97.25	98.59	98.93	99	98.8	98.49	98.77
Vmax	800	97.25	98.59	98.93	99	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	90506.7	513.8	98.4	90535.5	513.7	98.3	90472.6	513.7	98.3	90777.4	513.8	98.3	90425.8	513.8	98.3
20%	Vmin	192783.3	513.6	98.6	192761.3	513.6	98.6	192264.3	513.6	98.6	192815.7	513.7	98.6	192536.0	513.6	98.6
30%	Vmin	288206.0	512.5	98.7	289515.0	512.5	98.7	288465.3	512.5	98.7	288618.7	512.5	98.7	288938.3	512.5	98.7
50%	Vmin	477438.7	512.1	98.7	477270.7	512.1	98.7	478609.3	512.1	98.7	477077.3	512.1	98.7	476747.7	512.1	98.7
75%	Vmin	708229.0	512.7	98.6	711080.7	512.7	98.6	708993.0	512.8	98.6	711172.7	512.7	98.6	708623.0	512.8	98.7
100%	Vmin	947779.3	512.3	98.4	946845.7	512.2	98.4	947384.7	512.3	98.4	947541.7	512.2	98.4	945735.7	512.2	98.4
10%	Vnom	90448.5	593.3	97.7	89817.2	593.3	97.7	90187.6	593.3	97.7	89959.3	593.3	97.7	90616.7	593.3	98.0
20%	Vnom	191439.3	592.2	98.2	192539.0	592.2	98.3	191917.0	592.2	98.2	192266.0	592.2	98.2	191453.7	592.1	98.3
30%	Vnom	289444.3	592.0	98.3	290009.7	592.1	98.3	288635.0	592.1	98.3	290638.0	592.0	98.3	288791.7	592.0	98.3
50%	Vnom	480818.3	592.7	98.4	480177.7	592.7	98.4	479508.3	592.8	98.4	479359.3	592.7	98.4	481989.7	592.7	98.4
75%	Vnom	705009.7	592.3	98.3	707489.7	592.4	98.3	704897.0	592.3	98.3	705760.7	592.4	98.3	706143.7	592.3	98.3
100%	Vnom	948350.3	590.0	98.0	950507.0	589.9	98.0	947337.3	590.0	98.0	951812.3	589.9	98.0	946122.3	589.9	98.0
10%	Vmax	89753.5	799.4	97.4	90144.6	799.3	97.4	89685.4	799.4	97.6	90489.4	799.4	97.6	89633.5	799.3	97.5
20%	Vmax	194207.7	799.3	97.7	192685.7	799.2	97.8	194333.7	799.4	97.7	192815.7	799.2	97.8	193484.3	799.3	97.8
30%	Vmax	286525.3	799.3	97.7	287948.3	799.3	97.7	288428.3	799.2	97.9	285910.0	799.3	97.8	289778.7	799.2	97.8
50%	Vmax	474998.3	799.1	97.8	477719.7	799.0	97.8	477727.3	799.0	97.8	475154.0	799.1	97.8	476431.3	799.1	97.8
75%	Vmax	713566.7	799.8	97.7	706279.7	799.8	97.8	711627.0	799.8	97.7	706658.7	799.8	97.8	710790.0	799.9	97.7
100%	Vmax	954170.0	799.3	97.6	947357.0	799.5	97.6	956724.3	799.4	97.6	949900.0	799.4	97.6	949388.3	799.6	97.6

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	90744.1	513.8	98.4	90417.4	513.8	98.3									
20%	Vmin	192729.3	513.6	98.6	192051.7	513.6	98.6									
30%	Vmin	288934.7	512.5	98.7	289062.3	512.5	98.7									
50%	Vmin	478780.0	512.1	98.7	478053.3	512.1	98.7									
75%	Vmin	710788.7	512.7	98.7	709132.7	512.7	98.6									
100%	Vmin	948233.0	512.2	98.4	946264.0	512.2	98.4									
10%	Vnom	90235.7	593.2	98.0	90398.4	593.3	98.0									
20%	Vnom	192684.3	592.2	98.2	191752.3	592.2	98.2									
30%	Vnom	290172.0	592.0	98.3	288488.7	592.0	98.3									
50%	Vnom	480552.3	592.7	98.4	478924.0	592.8	98.4									
75%	Vnom	706186.3	592.4	98.3	706701.7	592.3	98.3									
100%	Vnom	951989.7	589.9	98.0	947943.7	589.9	98.0									
10%	Vmax	90297.2	799.4	97.5	89557.8	799.3	97.4									
20%	Vmax	193241.0	799.4	97.8	193690.3	799.4	97.7									
30%	Vmax	286825.0	799.3	97.9	288476.0	799.4	97.8									
50%	Vmax	479664.3	799.0	97.8	475919.7	799.1	97.9									
75%	Vmax	707747.0	799.8	97.7	708422.7	799.9	97.8									
100%	Vmax	955939.0	799.3	97.6	947642.3	799.5	97.6									