Manufacturer: Power Electronics

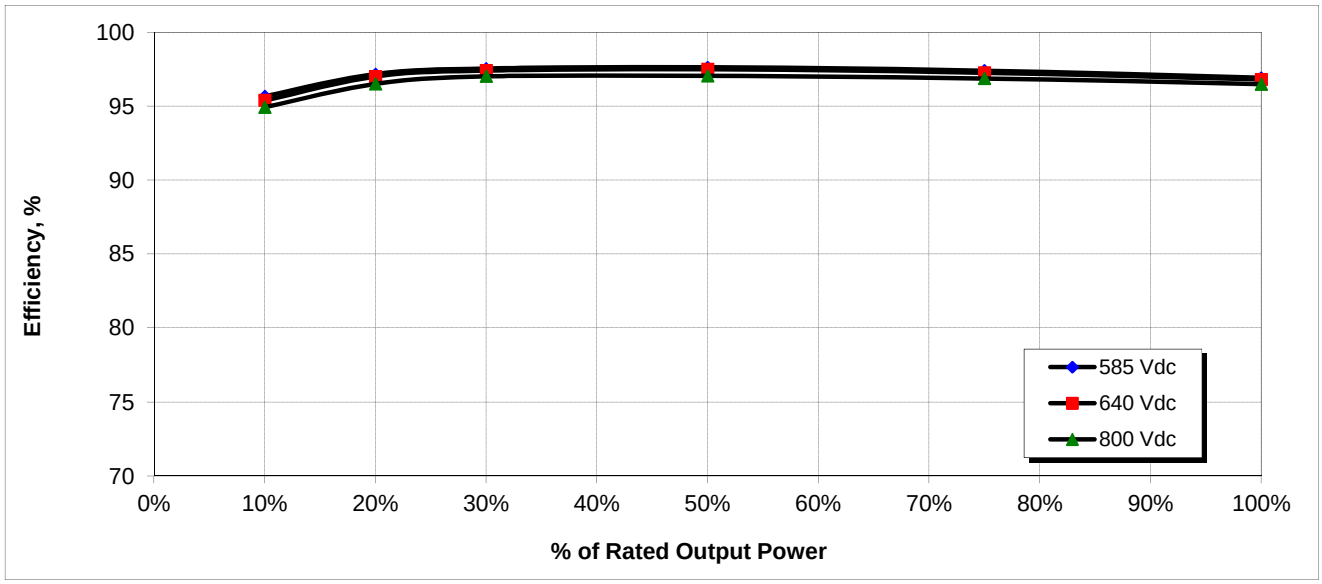
Model #: FS1700CU (390Vac)

Rated Maximum Continuous Output Power: 1700.0 kW Night Tare Loss: -346 W

Vmin: 585 Vdc Vnom: 640 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		170.00	340.00	510.00	850.00	1275.00	1700.00	Wtd
Vmin	585	95.7	97.2	97.5	97.6	97.4	96.9	97.4
Vnom	640	95.4	97.0	97.4	97.5	97.3	96.8	97.2
Vmax	800	94.9	96.5	97.0	97.0	96.9	96.5	96.8

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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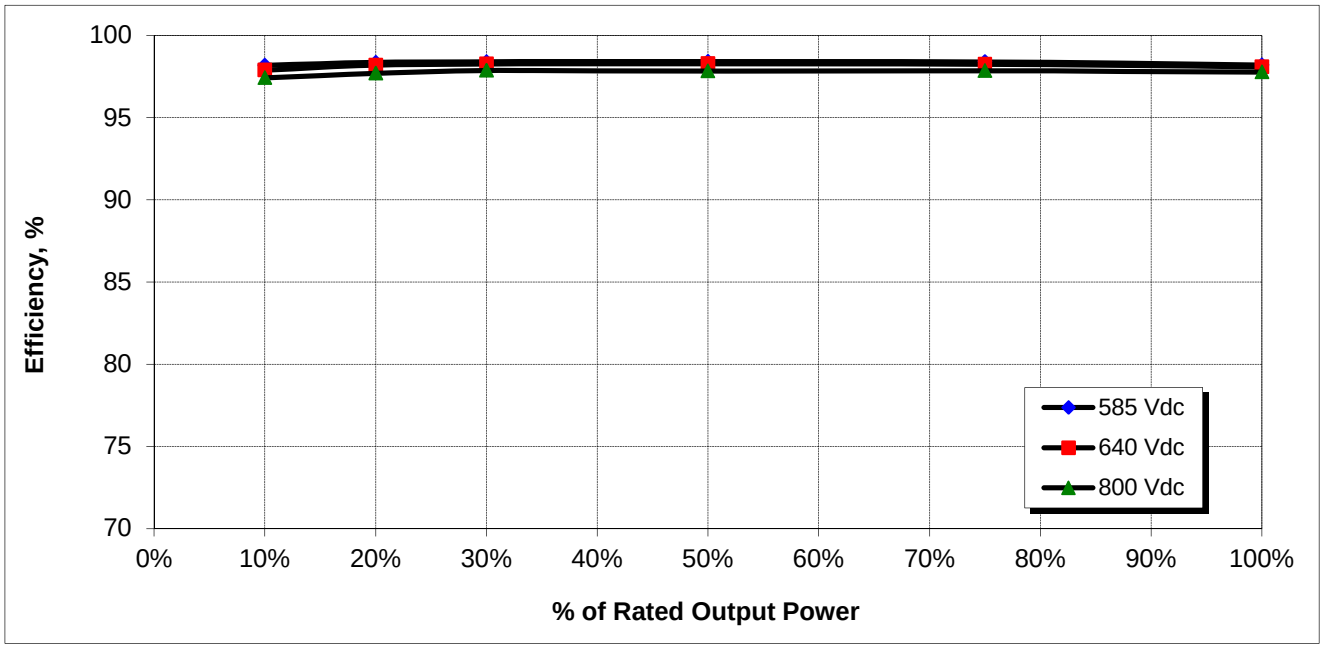
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		170.00	340.00	510.00	850.00	1275.00	1700.00	Wtd
Vmin	585	98.2	98.4	98.4	98.4	98.4	98.2	98.4
Vnom	640	97.9	98.2	98.3	98.3	98.2	98.1	98.2
Vmax	800	97.4	97.7	97.9	97.8	97.9	97.8	97.8

Inverter Efficiency only = 98.0%



1700KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		170.00	340.00	510.00	850.00	1275.00	1700.00	Wtd
Vmin	605	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vnom	655	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vmax	800	97.45	98.79	99.13	99.20	99.00	98.69	98.97

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	168256.7	585.5	98.2	168437.7	585.5	98.2	168446.0	585.5	98.2	168325.7	585.5	98.2	168343.0	585.5	98.2
20%	Vmin	340859.0	585.2	98.4	340908.7	585.2	98.4	340959.7	585.2	98.4	341227.3	585.2	98.4	340824.7	585.2	98.4
30%	Vmin	515757.7	585.1	98.4	514950.0	585.1	98.4	515443.3	585.0	98.4	515543.7	585.1	98.4	515860.0	585.1	98.4
50%	Vmin	857031.3	585.5	98.4	857473.3	585.5	98.4	857072.0	585.5	98.4	857771.3	585.5	98.4	856889.3	585.5	98.4
75%	Vmin	1276376.7	585.6	98.4	1276983.3	585.5	98.4	1276713.3	585.6	98.4	1277026.7	585.7	98.4	1277360.0	585.6	98.4
100%	Vmin	1707590.0	585.4	98.2	1707363.3	585.5	98.2	1707150.0	585.4	98.2	1707180.0	585.5	98.2	1706926.7	585.5	98.2
10%	Vnom	167803.7	640.4	97.9	167824.7	640.5	97.9	167893.0	640.4	97.9	167868.3	640.5	97.9	167904.0	640.5	97.9
20%	Vnom	339741.0	640.2	98.2	340634.7	640.2	98.2	340435.3	640.2	98.2	340572.3	640.2	98.2	340669.7	640.2	98.2
30%	Vnom	514716.0	640.2	98.3	514533.0	640.2	98.3	514763.0	640.2	98.3	515151.3	640.1	98.3	514380.7	640.1	98.3
50%	Vnom	854434.0	640.6	98.3	855866.3	640.6	98.3	854902.0	640.6	98.3	855045.3	640.6	98.3	855816.0	640.6	98.3
75%	Vnom	1274633.3	639.9	98.2	1274623.3	639.9	98.2	1274800.0	639.9	98.2	1274183.3	639.9	98.3	1274343.3	639.8	98.3
100%	Vnom	1713596.7	640.9	98.1	1713066.7	640.8	98.1	1713310.0	640.9	98.1	1712773.3	640.8	98.1	1713216.7	640.8	98.1
10%	Vmax	167617.0	799.7	97.6	167962.0	799.8	97.6	167690.0	799.7	97.6	167191.3	799.7	97.3	167224.7	799.7	97.3
20%	Vmax	339692.7	799.7	97.7	339575.3	799.7	97.7	339457.0	799.6	97.7	339536.7	799.6	97.7	339516.7	799.6	97.7
30%	Vmax	512489.3	799.6	97.9	513889.0	799.6	97.9	513608.7	799.5	97.9	513732.3	799.5	97.9	513745.0	799.6	97.9
50%	Vmax	858049.0	799.3	97.8	855534.0	799.2	97.8	852380.7	799.2	97.8	853554.0	799.2	97.8	852784.7	799.2	97.8
75%	Vmax	1270596.7	799.5	97.9	1270686.7	799.5	97.9	1271256.7	799.5	97.8	1271960.0	799.6	97.9	1271963.3	799.5	97.9
100%	Vmax	1710756.7	799.8	97.8	1709946.7	799.7	97.8	1709603.3	799.7	97.8	1710383.3	799.8	97.8	1710560.0	799.7	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	168395.7	585.5	98.2	168444.0	585.4	98.2									
20%	Vmin	340984.0	585.2	98.4	340871.3	585.2	98.4									
30%	Vmin	515850.0	585.1	98.4	515578.3	585.1	98.4									
50%	Vmin	856834.0	585.5	98.4	858191.7	585.5	98.4									
75%	Vmin	1276930.0	585.7	98.4	1277363.3	585.6	98.4									
100%	Vmin	1707406.7	585.5	98.2	1707526.7	585.5	98.2									
10%	Vnom	167810.7	640.5	97.9	167944.7	640.5	97.9									
20%	Vnom	340603.3	640.2	98.2	340826.7	640.2	98.2									
30%	Vnom	514777.7	640.1	98.3	514595.3	640.2	98.3									
50%	Vnom	855084.3	640.6	98.3	855512.0	640.6	98.3									
75%	Vnom	1274453.3	639.9	98.3	1274860.0	639.8	98.3									
100%	Vnom	1713126.7	640.8	98.1	1712946.7	640.8	98.1									
10%	Vmax	167392.0	799.7	97.3	167452.7	799.8	97.3									
20%	Vmax	339773.0	799.6	97.7	339448.3	799.5	97.7									
30%	Vmax	513671.0	799.6	97.9	514366.7	799.6	97.9									
50%	Vmax	852732.7	799.2	97.8	854649.7	799.2	97.8									
75%	Vmax	1272166.7	799.5	97.9	1271163.3	799.5	97.9									
100%	Vmax	1710756.7	799.7	97.8	1710136.7	799.8	97.8									