Manufacturer: Power Electronics

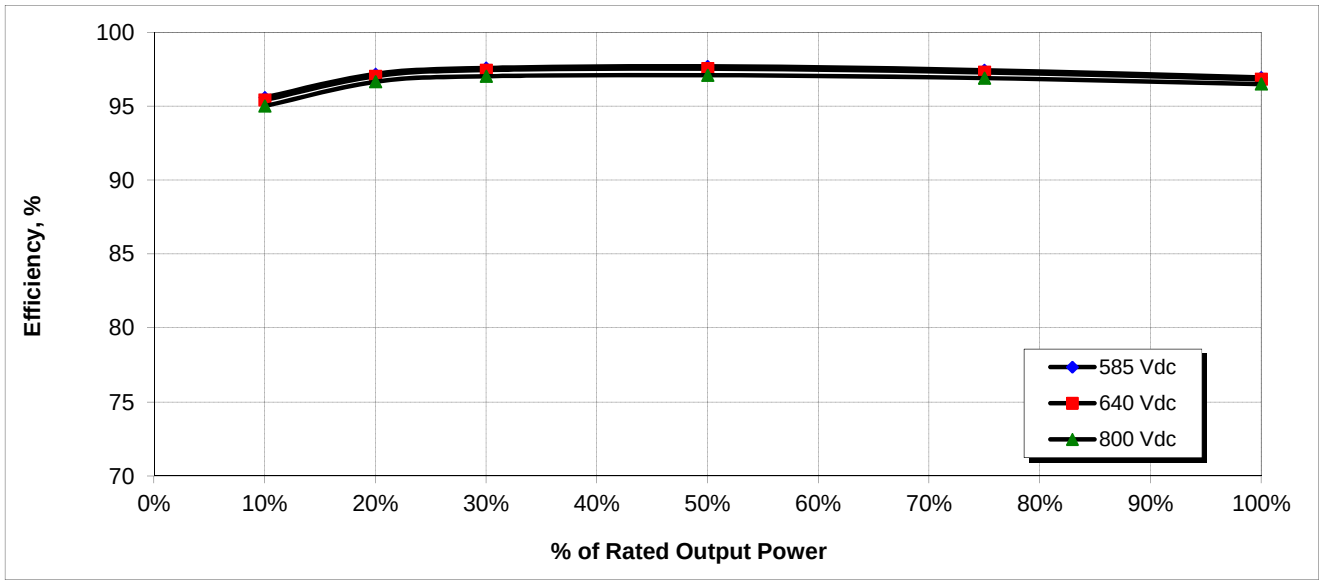
Model #: FS1530CU (390Vac)

Rated Maximum Continuous Output Power: 1530.0 kW Night Tare Loss: -345 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		153.00	306.00	459.00	765.00	1147.50	1530.00	Wtd
Vmin	585	95.6	97.2	97.6	97.7	97.4	96.9	97.4
Vnom	640	95.4	97.0	97.4	97.5	97.3	96.8	97.2
Vmax	800	95.0	96.7	97.0	97.1	96.9	96.5	96.8

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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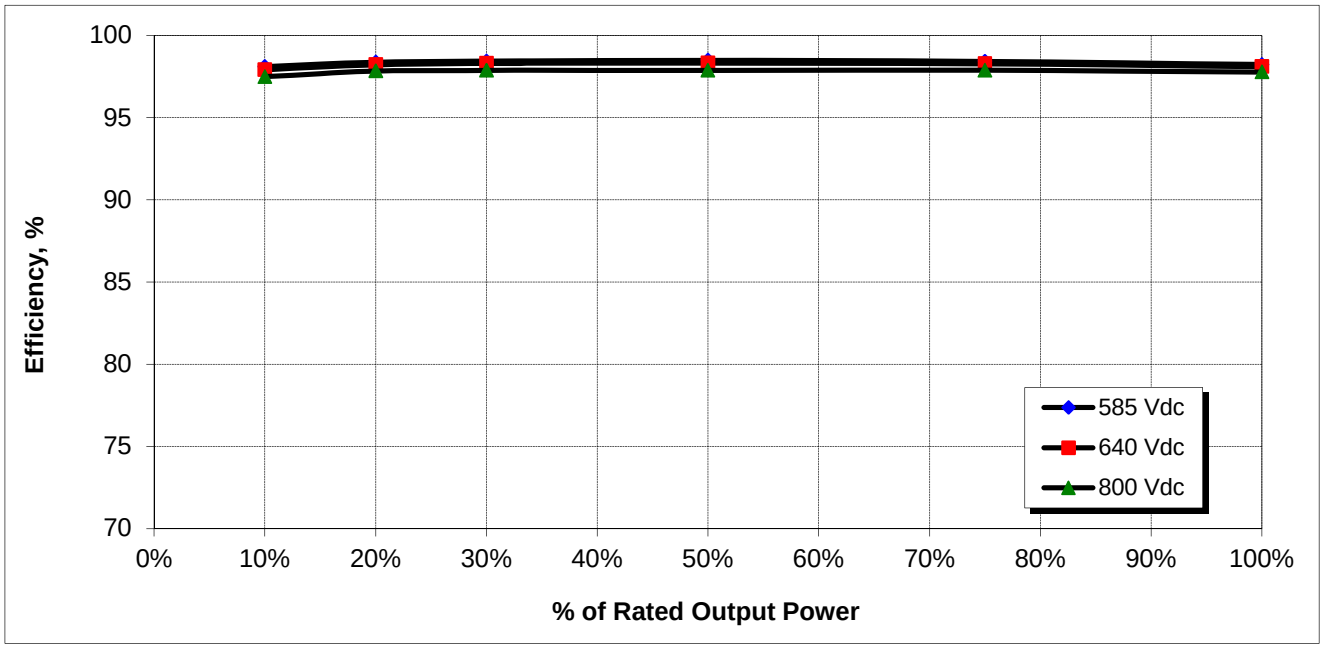
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		153.00	306.00	459.00	765.00	1147.50	1530.00	Wtd
Vmin	585	98.1	98.4	98.4	98.5	98.4	98.2	98.4
Vnom	640	97.9	98.2	98.3	98.3	98.3	98.1	98.3
Vmax	800	97.5	97.8	97.9	97.9	97.9	97.8	97.9

Inverter Efficiency only = 98.0%



1530KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		153.00	306.00	459.00	765.00	1147.50	1530.00	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	152515.3	585.1	98.1	152594.0	585.2	98.1	152504.3	585.2	98.1	152576.0	585.2	98.1	152541.7	585.2	98.1
20%	Vmin	309177.7	585.9	98.4	308866.3	585.9	98.4	309094.3	585.9	98.4	308502.0	585.9	98.4	308618.7	585.9	98.4
30%	Vmin	460727.7	586.7	98.5	459956.7	586.6	98.4	460621.3	586.7	98.4	460275.0	586.6	98.4	461385.0	586.7	98.4
50%	Vmin	776157.0	584.3	98.5	775669.0	584.3	98.5	775848.0	584.2	98.5	776617.0	584.1	98.5	774972.7	584.2	98.5
75%	Vmin	1154326.7	585.4	98.4	1153410.0	585.4	98.4	1153403.3	585.5	98.4	1153766.7	585.4	98.4	1154086.7	585.4	98.4
100%	Vmin	1546413.3	585.6	98.2	1547176.7	585.5	98.2	1547693.3	585.4	98.2	1546646.7	585.4	98.2	1546430.0	585.5	98.2
10%	Vnom	152337.0	640.2	97.9	152406.0	640.2	97.9	152309.0	640.2	97.9	152454.0	640.2	97.9	152144.0	640.1	97.9
20%	Vnom	308672.0	640.0	98.2	308324.0	640.0	98.2	308447.0	640.0	98.2	308597.7	640.0	98.2	308747.0	640.0	98.2
30%	Vnom	460604.3	640.9	98.3	460076.7	640.8	98.3	459989.7	640.9	98.3	459441.0	640.8	98.3	460513.0	640.9	98.3
50%	Vnom	774472.3	640.4	98.3	775187.3	640.4	98.3	774067.0	640.3	98.3	772865.7	640.4	98.3	773854.7	640.4	98.3
75%	Vnom	1150870.0	640.7	98.3	1151196.7	640.7	98.3	1151870.0	640.7	98.3	1152183.3	640.7	98.3	1153080.0	640.7	98.3
100%	Vnom	1544030.0	640.7	98.1	1543320.0	640.8	98.1	1543623.3	640.8	98.1	1545640.0	640.8	98.1	1546850.0	640.8	98.1
10%	Vmax	152092.7	799.7	97.5	151944.3	799.7	97.5	152179.7	799.7	97.5	152196.3	799.7	97.5	152121.3	799.7	97.5
20%	Vmax	308331.7	799.6	97.9	308484.7	799.5	97.8	308115.0	799.5	97.8	308011.0	799.5	97.8	308118.0	799.5	97.8
30%	Vmax	458771.3	799.5	97.9	459352.3	799.5	97.9	458748.7	799.4	97.9	459721.7	799.4	97.9	458649.7	799.5	97.9
50%	Vmax	772695.7	799.2	97.9	772446.7	799.1	97.9	772312.7	799.1	97.9	771284.0	799.1	97.9	770486.3	799.2	97.9
75%	Vmax	1147643.3	799.6	97.9	1148020.0	799.6	97.9	1148293.3	799.5	97.9	1149530.0	799.5	97.9	1150066.7	799.5	97.9
100%	Vmax	1540933.3	799.7	97.8	1542390.0	799.8	97.8	1543893.3	799.8	97.8	1545956.7	799.7	97.8	1546833.3	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	152833.3	585.2	98.1	152552.0	585.2	98.1									
20%	Vmin	308439.7	585.9	98.4	308964.7	585.9	98.4									
30%	Vmin	460599.7	586.7	98.4	460731.0	586.6	98.4									
50%	Vmin	775890.3	584.2	98.5	776336.3	584.2	98.5									
75%	Vmin	1154526.7	585.4	98.4	1155206.7	585.5	98.4									
100%	Vmin	1545896.7	585.5	98.2	1545843.3	585.5	98.2									
10%	Vnom	152255.7	640.2	97.9	152381.0	640.2	97.9									
20%	Vnom	308655.7	640.0	98.2	308601.3	640.0	98.2									
30%	Vnom	459511.7	640.8	98.3	459979.0	640.8	98.3									
50%	Vnom	774564.7	640.3	98.3	774316.0	640.4	98.3									
75%	Vnom	1153923.3	640.7	98.3	1153923.3	640.6	98.3									
100%	Vnom	1546850.0	640.7	98.1	1546313.3	640.7	98.1									
10%	Vmax	152144.7	799.7	97.5	151975.0	799.7	97.5									
20%	Vmax	308021.3	799.5	97.8	307823.3	799.5	97.8									
30%	Vmax	459092.3	799.5	97.9	459152.7	799.5	97.9									
50%	Vmax	771495.3	799.1	97.9	772399.7	799.1	97.9									
75%	Vmax	1150770.0	799.5	97.9	1151636.7	799.5	97.9									
100%	Vmax	1545430.0	799.7	97.8	1543863.3	799.7	97.8									