Manufacturer: Power Electronics

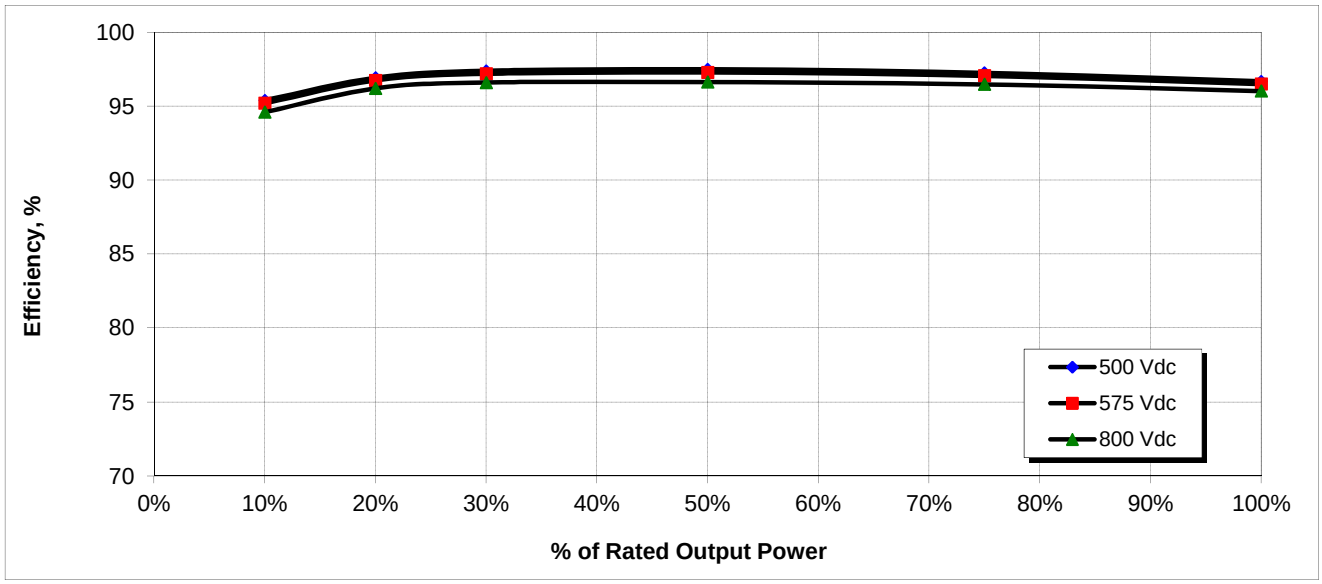
Model #: FS1430CU (330Vac)

Rated Maximum Continuous Output Power: 1430.0 kW Night Tare Loss: -604 W

Vmin: 500 Vdc Vnom: 575 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		143.00	286.00	429.00	715.00	1072.50	1430.00	Wtd
Vmin	500	95.4	96.9	97.4	97.5	97.3	96.7	97.2
Vnom	575	95.2	96.7	97.2	97.3	97.1	96.5	97.0
Vmax	800	94.6	96.2	96.6	96.6	96.5	96.0	96.4

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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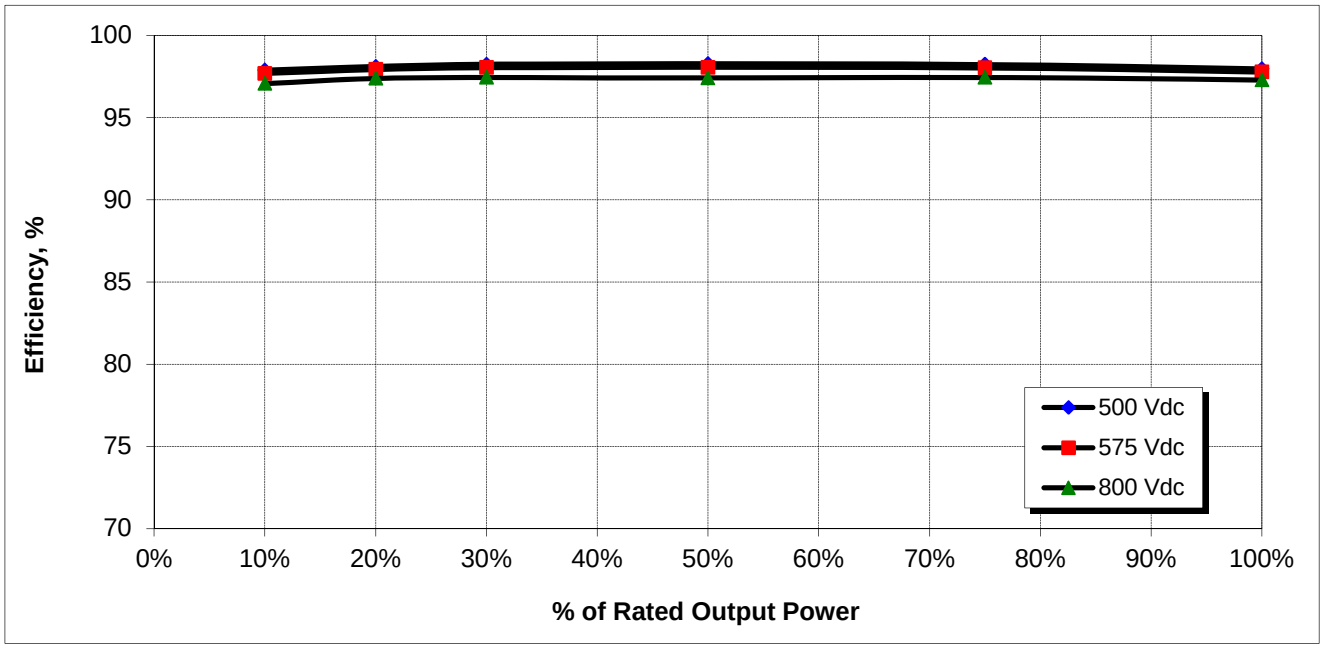
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		143.00	286.00	429.00	715.00	1072.50	1430.00	Wtd
Vmin	500	97.9	98.1	98.2	98.3	98.2	98.0	98.2
Vnom	575	97.7	97.9	98.0	98.1	98.0	97.8	98.0
Vmax	800	97.1	97.4	97.4	97.4	97.4	97.3	97.4

Inverter Efficiency only = 98.0%



1430KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		143.00	286.00	429.00	715.00	1072.50	1430.00	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	141184.3	500.7	97.9	141152.3	500.7	97.9	141187.3	500.7	97.9	140828.0	500.7	97.9	140662.3	500.7	97.9
20%	Vmin	286099.7	500.4	98.1	286081.3	500.4	98.1	285891.0	500.4	98.1	285871.3	500.4	98.1	286531.7	500.4	98.1
30%	Vmin	432149.0	500.0	98.2	432042.7	500.1	98.3	431057.3	500.1	98.3	431163.3	500.2	98.2	431971.0	500.2	98.3
50%	Vmin	722194.0	500.5	98.3	721833.7	500.5	98.3	722275.7	500.5	98.3	722450.0	500.5	98.3	721509.3	500.6	98.3
75%	Vmin	1080970.0	500.5	98.2	1080943.3	500.5	98.2	1081090.0	500.6	98.2	1081006.7	500.5	98.2	1081240.0	500.5	98.2
100%	Vmin	1445453.3	500.2	98.0	1445466.7	500.3	98.0	1446970.0	500.2	98.0	1446000.0	500.2	98.0	1446080.0	500.2	98.0
10%	Vnom	140803.3	576.1	97.7	140721.0	576.1	97.7	141028.0	576.1	97.7	140869.3	576.0	97.7	140560.3	576.0	97.7
20%	Vnom	285376.7	575.8	97.9	285471.7	575.8	97.9	286045.0	575.8	97.9	285930.0	575.9	97.9	285776.7	575.9	97.9
30%	Vnom	430012.0	575.6	98.0	430471.3	575.5	98.0	430751.0	575.5	98.0	431025.0	575.5	98.0	431071.3	575.6	98.1
50%	Vnom	717907.0	576.1	98.1	719596.7	576.1	98.1	719427.3	576.1	98.1	720935.7	576.1	98.1	720710.7	576.0	98.1
75%	Vnom	1075100.0	575.2	98.0	1076106.7	575.1	98.0	1075456.7	575.2	98.0	1076220.0	575.3	98.0	1076756.7	575.2	98.0
100%	Vnom	1442953.3	576.1	97.8	1443290.0	576.1	97.8	1443710.0	576.0	97.8	1443400.0	576.1	97.8	1445233.3	576.1	97.8
10%	Vmax	140309.0	799.1	97.1	140268.7	799.2	97.1	140229.7	799.1	97.1	140540.0	799.1	97.1	140315.7	799.0	97.1
20%	Vmax	285294.3	799.0	97.4	285538.7	798.9	97.4	285494.7	798.9	97.4	284746.7	798.9	97.4	284580.0	798.9	97.4
30%	Vmax	427058.0	799.8	97.5	427324.7	799.8	97.5	427317.0	799.8	97.4	428107.7	799.7	97.4	428138.3	799.6	97.4
50%	Vmax	718066.3	799.4	97.4	713375.0	799.4	97.4	716273.3	799.5	97.4	717027.7	799.5	97.4	716636.7	799.5	97.4
75%	Vmax	1071156.7	799.8	97.4	1072410.0	799.7	97.4	1068756.7	799.8	97.4	1073763.3	799.7	97.5	1069520.0	799.8	97.5
100%	Vmax	1437843.3	798.9	97.3	1437033.3	799.0	97.3	1439243.3	798.8	97.3	1441796.7	798.7	97.3	1437443.3	798.9	97.3

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	141039.0	500.7	97.9	141143.3	500.7	97.9									
20%	Vmin	286151.7	500.4	98.1	286057.0	500.4	98.1									
30%	Vmin	430832.3	500.2	98.3	430693.3	500.2	98.2									
50%	Vmin	720074.7	500.6	98.3	722002.0	500.5	98.3									
75%	Vmin	1082866.7	500.5	98.2	1081643.3	500.6	98.2									
100%	Vmin	1446323.3	500.2	98.0	1446496.7	500.1	98.0									
10%	Vnom	140972.7	576.1	97.7	140800.3	576.1	97.7									
20%	Vnom	285550.7	575.8	97.9	286005.0	575.8	97.9									
30%	Vnom	431149.0	575.5	98.1	431100.3	575.5	98.0									
50%	Vnom	716961.0	576.1	98.1	719081.0	576.1	98.0									
75%	Vnom	1076676.7	575.3	98.0	1074726.7	575.2	98.0									
100%	Vnom	1442603.3	576.0	97.8	1444183.3	576.2	97.8									
10%	Vmax	140286.3	799.1	97.1	140532.0	799.1	97.1									
20%	Vmax	285118.7	798.8	97.4	285734.7	798.9	97.4									
30%	Vmax	427778.3	799.8	97.4	427688.7	799.8	97.4									
50%	Vmax	714599.3	799.5	97.4	717328.0	799.5	97.4									
75%	Vmax	1072850.0	799.7	97.5	1069256.7	799.7	97.5									
100%	Vmax	1438536.7	798.9	97.3	1440113.3	799.0	97.3									