Manufacturer: Power Electronics

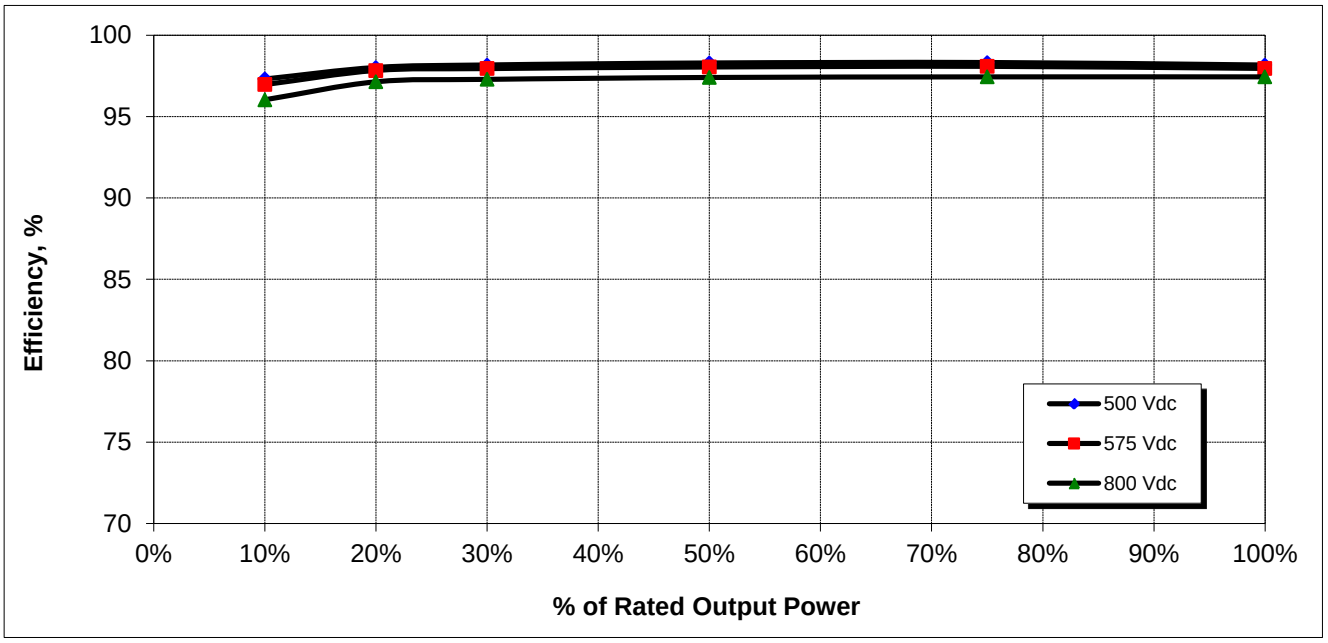
Model #: FS0501CU (330Vac)

Rated Maximum Continuous Output Power: 499.846 kW Night Tare Loss: -478 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		49.98	99.97	149.95	249.92	374.88	499.85	Wtd
Vmin	500	97.3	98.0	98.2	98.3	98.3	98.2	98.2
Vnom	575	97.0	97.8	97.9	98.0	98.1	98.0	98.0
Vmax	800	96.0	97.1	97.3	97.4	97.4	97.4	97.3

Inverter Efficiency only = 98.0%



500KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		49.98	99.97	149.95	249.92	374.88	499.85	Wtd
Vmin	500	96.95	98.29	98.63	98.7	98.5	98.19	98.5
Vnom	575	96.95	98.29	98.63	98.7	98.5	98.19	98.5
Vmax	800	96.95	98.29	98.63	98.7	98.5	98.19	98.5

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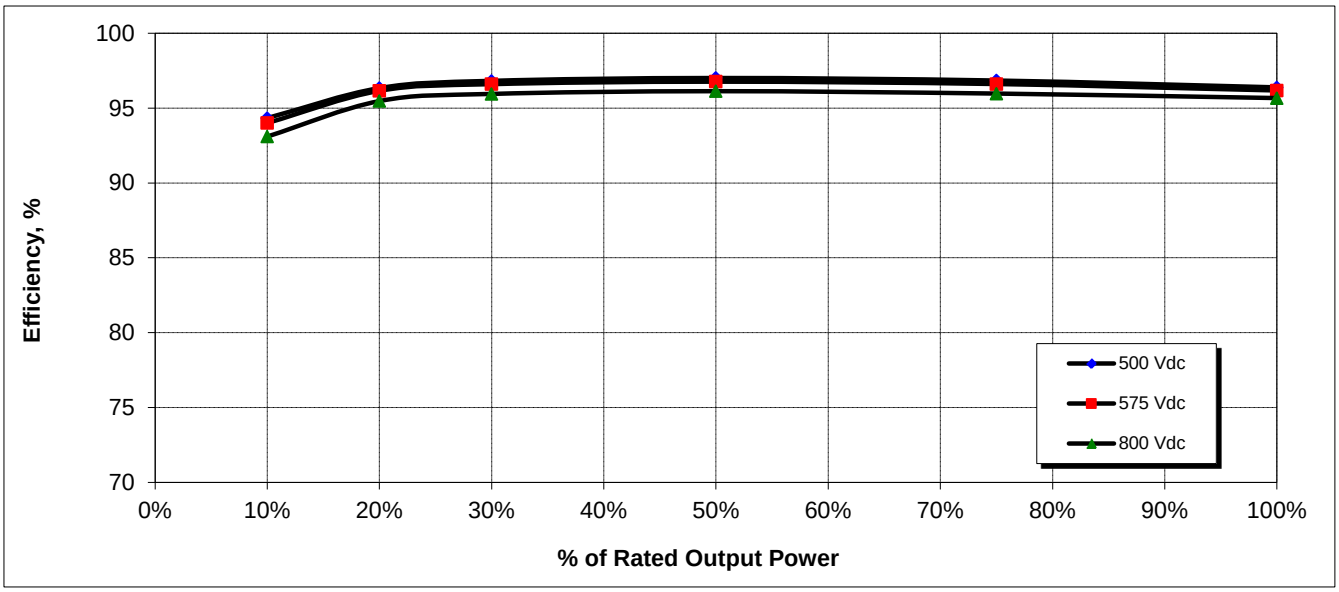
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		49.98	99.97	149.95	249.92	374.88	499.85	Wtd
Vmin	500	94.3	96.3	96.8	97.0	96.8	96.4	96.7
Vnom	575	94.0	96.2	96.6	96.8	96.6	96.2	96.5
Vmax	800	93.1	95.5	96.0	96.1	96.0	95.7	95.9

CEC Efficiency of Inverter and MV TP1 Transformer = 96.5%



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	48463.6	500.7	97.3	48347.3	500.7	97.3	48486.3	500.7	97.3	48492.9	500.7	97.3	48300.7	500.7	97.3
20%	Vmin	100938.3	500.6	98.0	101226.7	500.6	98.0	101296.0	500.6	98.0	101177.0	500.5	98.0	101405.3	500.5	98.0
30%	Vmin	152657.3	501.4	98.2	153616.0	501.4	98.2	153480.3	501.4	98.2	153611.3	501.4	98.2	153296.7	501.4	98.2
50%	Vmin	252036.3	500.2	98.3	252840.7	500.2	98.3	252533.0	500.2	98.3	252519.3	500.2	98.3	252488.0	500.2	98.3
75%	Vmin	377115.7	500.0	98.3	378186.0	500.0	98.3	377796.0	500.0	98.3	377600.7	500.1	98.3	377948.7	500.0	98.3
100%	Vmin	502303.0	500.8	98.2	502830.7	500.7	98.2	502627.7	500.7	98.2	502844.7	500.7	98.2	502638.0	500.6	98.2
10%	Vnom	48340.4	575.2	97.0	48456.8	575.3	97.0	48371.8	575.2	97.0	48257.2	575.2	96.9	48414.3	575.2	97.0
20%	Vnom	100890.3	575.1	97.8	101024.3	575.2	97.8	100980.0	575.2	97.8	101239.0	575.2	97.8	101344.0	575.1	97.8
30%	Vnom	152373.3	576.0	97.9	152417.3	576.0	98.0	152616.3	576.0	97.9	152523.7	576.0	97.9	152624.3	576.1	97.9
50%	Vnom	252084.7	575.9	98.0	251841.0	575.9	98.0	251757.3	575.9	98.0	251952.0	575.9	98.0	251966.7	575.9	98.0
75%	Vnom	376744.7	575.6	98.1	377037.3	575.7	98.1	376682.3	575.6	98.1	376993.0	575.6	98.1	377292.7	575.7	98.1
100%	Vnom	502118.3	575.4	97.9	501934.7	575.4	98.0	502119.3	575.4	98.0	502040.3	575.5	98.0	501530.0	575.4	98.0
10%	Vmax	48121.8	800.6	96.0	48377.7	800.6	96.0	48217.4	800.6	96.0	48354.9	800.5	96.0	48141.0	800.5	96.0
20%	Vmax	100771.3	800.5	97.1	100867.3	800.5	97.1	100854.7	800.4	97.1	101002.3	800.5	97.1	100852.0	800.5	97.2
30%	Vmax	151987.7	800.5	97.3	151718.0	800.5	97.3	151987.7	800.5	97.3	151777.0	800.5	97.3	151847.3	800.4	97.3
50%	Vmax	251138.7	800.3	97.4	251020.7	800.3	97.4	251064.0	800.4	97.4	251092.7	800.3	97.4	251455.7	800.3	97.4
75%	Vmax	375329.7	800.2	97.4	375682.0	800.2	97.4	375260.3	800.2	97.4	375346.0	800.2	97.4	375653.3	800.2	97.4
100%	Vmax	500478.3	800.9	97.4	501154.7	800.9	97.4	501520.3	800.9	97.4	500373.3	800.9	97.4	501022.0	800.9	97.4

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	48609.9	500.7	97.3	48299.0	500.7	97.3									
20%	Vmin	101370.3	500.6	98.0	101270.0	500.5	98.0									
30%	Vmin	153555.3	501.4	98.2	153728.0	501.4	98.2									
50%	Vmin	252891.0	500.3	98.3	252797.7	500.3	98.3									
75%	Vmin	378075.7	500.0	98.3	378281.0	500.0	98.3									
100%	Vmin	502415.3	500.6	98.2	502328.0	500.6	98.2									
10%	Vnom	48094.5	575.3	97.0	48308.3	575.3	97.0									
20%	Vnom	100933.7	575.2	97.8	101005.0	575.2	97.8									
30%	Vnom	152723.7	576.0	97.9	152514.7	576.0	97.9									
50%	Vnom	252173.7	575.9	98.0	252084.0	575.9	98.1									
75%	Vnom	377087.7	575.7	98.1	377178.0	575.7	98.1									
100%	Vnom	501852.3	575.4	98.0	501847.7	575.4	98.0									
10%	Vmax	48187.5	800.6	96.0	48076.3	800.6	96.0									
20%	Vmax	100829.0	800.5	97.1	101018.3	800.5	97.1									
30%	Vmax	151749.7	800.5	97.3	151929.0	800.5	97.3									
50%	Vmax	251135.0	800.3	97.4	250861.3	800.3	97.4									
75%	Vmax	375852.0	800.2	97.5	375405.3	800.2	97.5									
100%	Vmax	500915.0	800.9	97.4	500846.0	801.0	97.4									