Manufacturer: Power Electronics

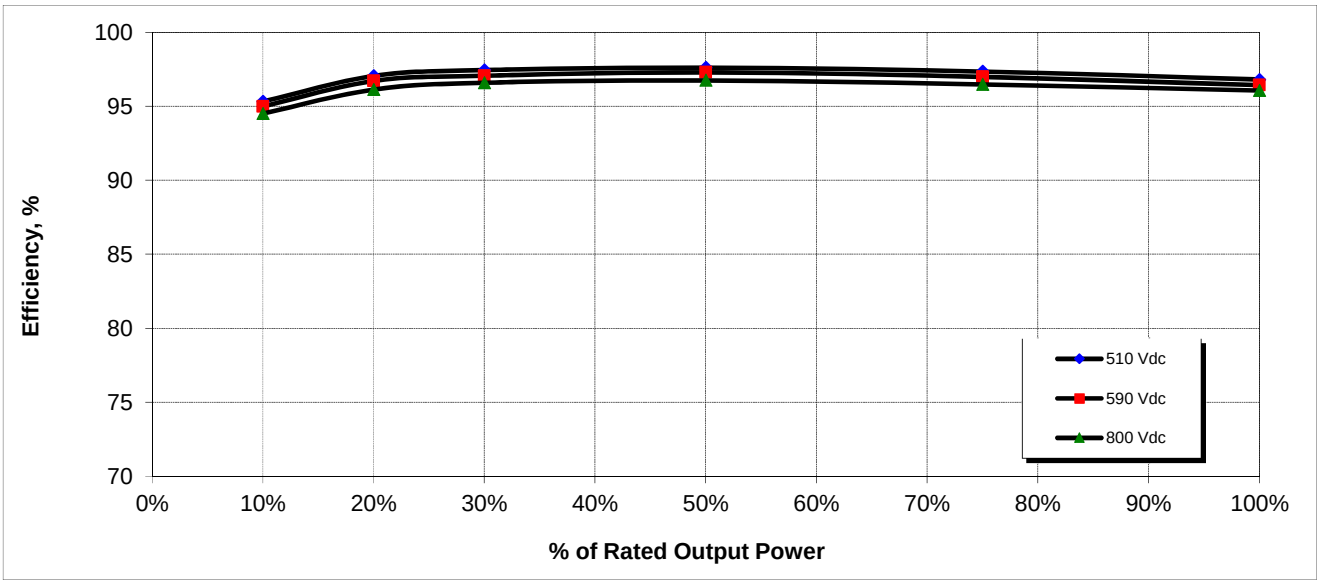
Model #: FS0701CU (360Vac)

Rated Maximum Continuous Output Power: 780.0 kW Night Tare Loss: -254 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		78.00	156.00	234.00	390.00	585.00	780.00	Wtd
Vmin	510	95.3	97.1	97.5	97.6	97.4	96.8	97.3
Vnom	590	95.0	96.7	97.1	97.3	97.0	96.4	96.9
Vmax	800	94.5	96.1	96.6	96.8	96.5	96.1	96.4

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



Manufacturer: Power Electronics

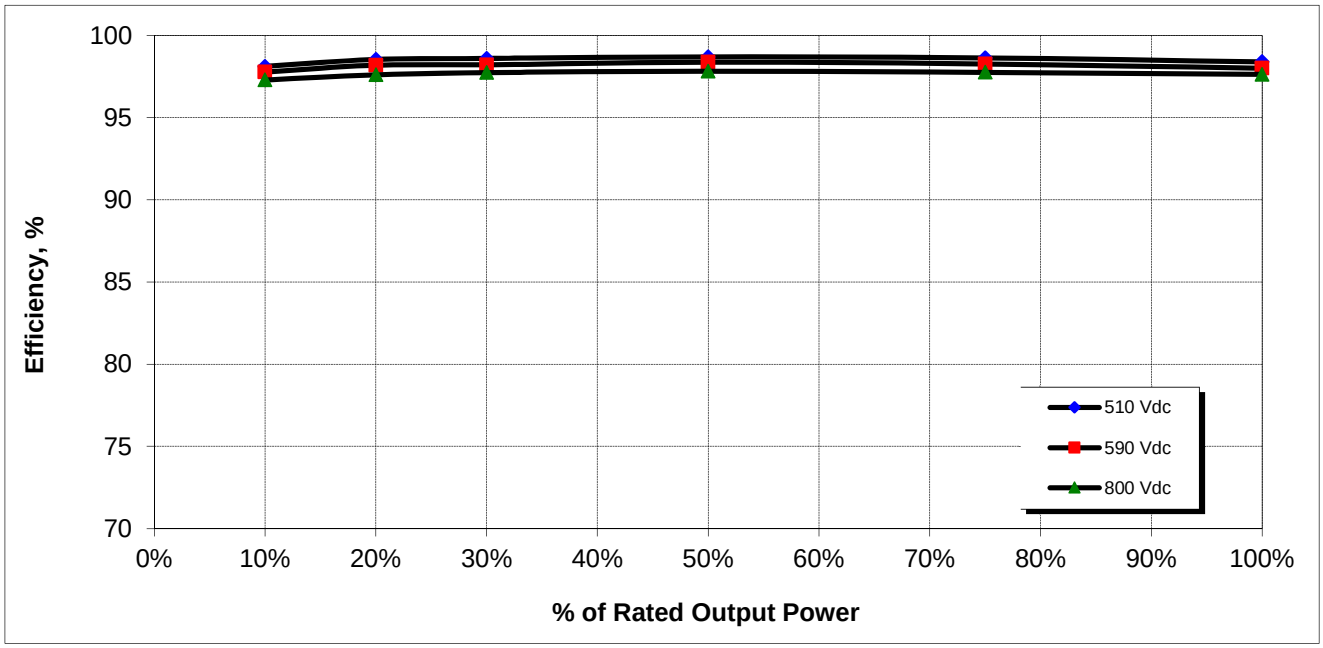
Model #: FS0701CU (360Vac)

Rated Maximum Continuous Output Power: 780.0 kW Night Tare Loss: -254 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		78.00	156.00	234.00	390.00	585.00	780.00	Wtd
Vmin	510	98.1	98.5	98.6	98.7	98.6	98.4	98.6
Vnom	590	97.8	98.2	98.2	98.4	98.3	98.0	98.3
Vmax	800	97.3	97.6	97.7	97.8	97.8	97.6	97.7

Inverter Efficiency only = 98.0%



780KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		78.00	156.00	234.00	390.00	585.00	780.00	Wtd
Vmin	510	97.15	98.49	98.83	98.9	98.7	98.39	98.67
Vnom	590	97.15	98.49	98.83	98.9	98.7	98.39	98.67
Vmax	800	97.15	98.49	98.83	98.9	98.7	98.39	98.67

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	75653.2	513.8	98.1	75811.5	513.9	98.1	75680.9	513.8	98.1	75565.0	513.9	98.1	75494.3	513.8	98.2
20%	Vmin	163488.7	511.9	98.6	163562.7	511.9	98.6	163185.7	511.9	98.5	163667.7	511.8	98.5	164051.0	511.9	98.5
30%	Vmin	246740.7	512.7	98.6	245977.7	512.7	98.6	246885.7	512.7	98.6	246172.3	512.7	98.6	246141.3	512.7	98.6
50%	Vmin	401903.0	512.4	98.7	401619.0	512.4	98.7	401374.7	512.4	98.7	401144.7	512.4	98.7	401261.0	512.4	98.7
75%	Vmin	602606.7	513.1	98.6	604934.0	513.0	98.6	602605.0	513.0	98.6	604117.3	513.0	98.6	602543.3	513.0	98.6
100%	Vmin	795159.0	512.7	98.4	792752.3	512.7	98.4	793638.0	512.7	98.4	794897.7	512.7	98.4	792965.3	512.7	98.4
10%	Vnom	74802.4	593.4	97.7	75390.0	593.4	97.7	75183.3	593.4	97.8	75745.3	593.4	97.8	75423.4	593.5	97.8
20%	Vnom	163026.7	592.5	98.2	162228.7	592.4	98.2	164282.0	592.4	98.2	163714.3	592.4	98.2	164249.7	592.4	98.2
30%	Vnom	246339.7	593.3	98.2	246385.7	593.2	98.2	246033.0	593.2	98.2	245811.3	593.2	98.2	246430.3	593.3	98.2
50%	Vnom	404751.7	592.0	98.4	402049.3	592.0	98.4	405368.7	592.0	98.4	402670.0	592.0	98.4	404877.0	592.0	98.4
75%	Vnom	607188.7	592.8	98.3	604671.3	592.7	98.3	608853.7	592.7	98.3	605469.3	592.7	98.3	606498.0	592.7	98.3
100%	Vnom	791152.0	592.4	98.0	791594.3	592.5	98.0	788475.7	592.5	98.0	793534.7	592.4	98.0	789204.0	592.4	98.0
10%	Vmax	75320.5	799.6	97.2	74708.5	799.5	97.3	75569.5	799.6	97.4	74867.6	799.5	97.2	75427.8	799.5	97.3
20%	Vmax	163355.7	799.6	97.6	162458.3	799.6	97.7	163709.7	799.5	97.7	162730.3	799.6	97.7	163098.7	799.6	97.6
30%	Vmax	246498.0	799.5	97.8	246007.0	799.5	97.7	246338.7	799.5	97.7	247024.7	799.4	97.8	245996.3	799.5	97.8
50%	Vmax	405467.3	799.3	97.8	403136.3	799.4	97.8	406910.3	799.3	97.8	402672.7	799.3	97.8	406902.0	799.4	97.8
75%	Vmax	605999.7	799.1	97.7	600487.0	799.3	97.8	602690.3	799.2	97.7	602610.0	799.3	97.8	600176.7	799.2	97.8
100%	Vmax	793932.0	799.0	97.6	794531.0	798.9	97.6	798430.3	798.9	97.6	792137.7	798.9	97.6	799552.3	798.8	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	75862.5	513.8	98.1	75527.1	513.9	98.1									
20%	Vmin	163498.7	511.9	98.5	163674.3	511.9	98.5									
30%	Vmin	246224.0	512.7	98.6	246640.0	512.6	98.6									
50%	Vmin	402096.3	512.4	98.7	401070.7	512.4	98.7									
75%	Vmin	603316.7	513.0	98.6	604300.7	513.0	98.6									
100%	Vmin	795687.0	512.7	98.4	792830.0	512.7	98.4									
10%	Vnom	75111.2	593.4	97.8	75288.2	593.4	97.9									
20%	Vnom	163555.0	592.4	98.2	164313.7	592.4	98.2									
30%	Vnom	245683.3	593.2	98.2	246152.0	593.3	98.2									
50%	Vnom	403047.7	592.1	98.4	405090.3	592.0	98.4									
75%	Vnom	607164.3	592.7	98.3	605349.3	592.7	98.3									
100%	Vnom	790703.0	592.4	98.0	790847.0	592.4	98.0									
10%	Vmax	74850.5	799.6	97.4	75546.2	799.5	97.4									
20%	Vmax	162494.3	799.6	97.5	162761.3	799.5	97.5									
30%	Vmax	246816.7	799.5	97.7	245807.7	799.5	97.7									
50%	Vmax	402663.0	799.4	97.8	407681.7	799.4	97.8									
75%	Vmax	606143.3	799.2	97.8	599781.0	799.2	97.8									
100%	Vmax	793919.7	799.0	97.6	794961.0	798.9	97.6									