Manufacturer: Power Electronics

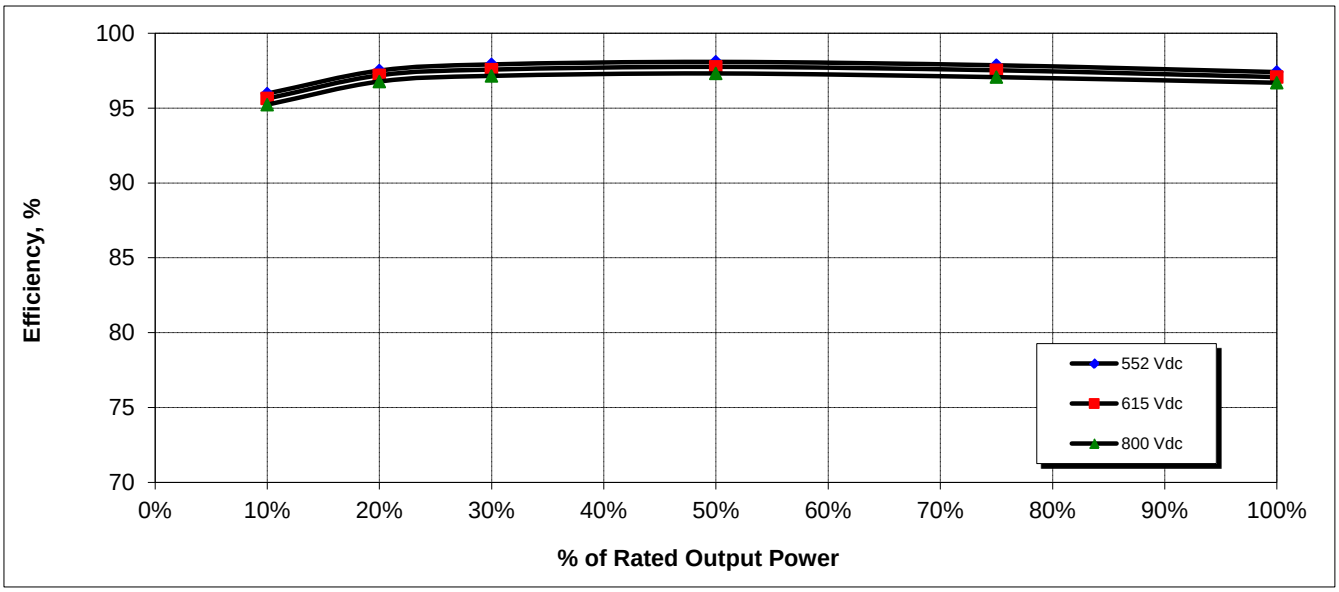
Model #: FS1250CU

Rated Maximum Continuous Output Power: 1361.5 kW Night Tare Loss: -549 W

Vmin: 552 Vdc Vnom: 615 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		136.15	272.30	408.45	680.75	1021.13	1361.50	Wtd
Vmin	552	96.0	97.5	97.9	98.1	97.9	97.4	97.8
Vnom	615	95.6	97.2	97.6	97.8	97.5	97.1	97.5
Vmax	800	95.2	96.8	97.2	97.3	97.1	96.7	97.0

CEC Efficiency of Inverter and MV TP1 Transformer = 97.5%



Manufacturer: Power Electronics

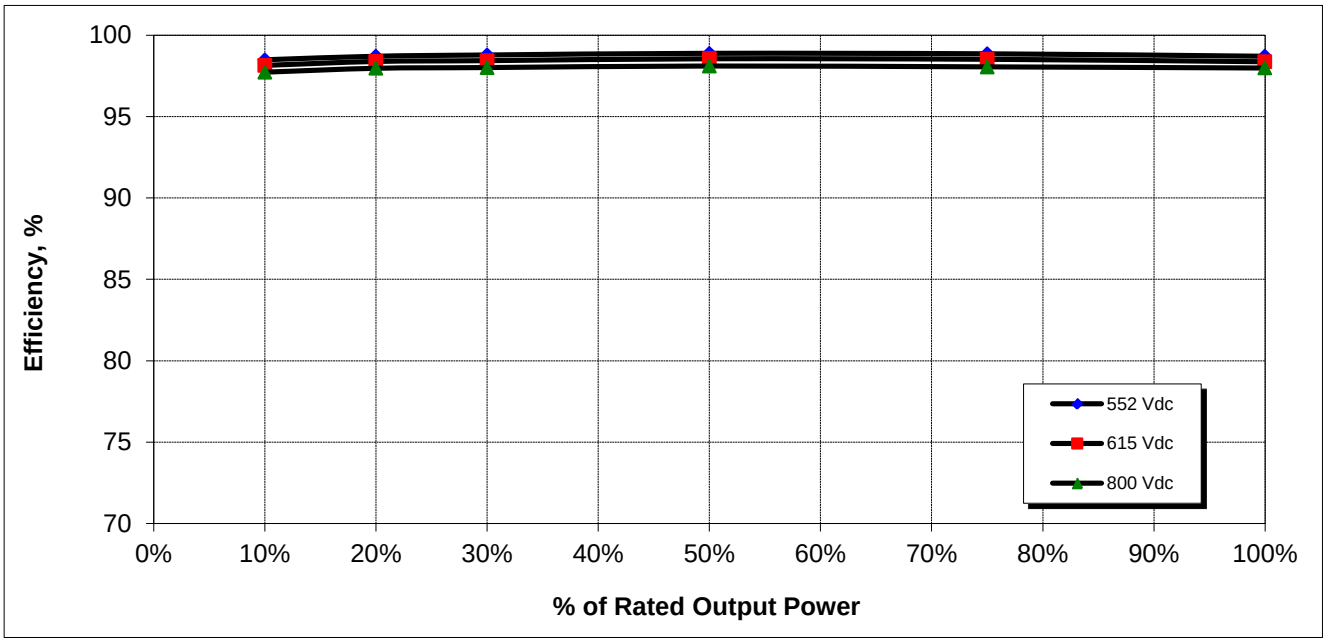
Model #: FS1250CU (390Vac)

Rated Maximum Continuous Output Power: 1360.0 kW Night Tare Loss: -549 W

Vmin: 552 Vdc Vnom: 615 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		136.00	272.00	408.00	680.00	1020.00	1360.00	Wtd
Vmin	552	98.5	98.7	98.8	98.9	98.9	98.7	98.8
Vnom	615	98.1	98.4	98.4	98.5	98.5	98.4	98.5
Vmax	800	97.7	98.0	98.0	98.1	98.1	98.0	98.0

Inverter Efficiency only = 98.5%



1360KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		136.15	272.30	408.45	680.75	1021.13	1361.50	Wtd
Vmin	552	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vnom	615	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	134597.7	552.7	98.5	134531.0	552.7	98.5	134607.0	552.7	98.5	134591.7	552.7	98.5	134594.3	552.7	98.5
20%	Vmin	275620.3	553.5	98.7	275762.7	553.5	98.7	276235.0	553.4	98.7	277516.7	553.5	98.7	277552.7	553.5	98.7
30%	Vmin	411054.0	552.3	98.8	411005.0	552.3	98.8	411439.0	552.3	98.8	410911.7	552.3	98.8	410854.7	552.4	98.8
50%	Vmin	688861.7	552.8	98.9	687330.0	552.9	98.9	687488.7	552.7	98.9	687799.3	552.7	98.9	688243.0	552.8	98.9
75%	Vmin	1025893.3	553.2	98.9	1032993.3	553.0	98.8	1025366.7	553.1	98.9	1026310.0	553.1	98.9	1026320.0	553.1	98.9
100%	Vmin	1365713.3	553.2	98.7	1365853.3	553.1	98.7	1363470.0	553.2	98.7	1365450.0	553.2	98.7	1366826.7	553.2	98.7
10%	Vnom	133998.3	615.6	98.1	133935.0	615.6	98.1	133996.7	615.6	98.1	134339.7	615.6	98.1	134471.3	615.7	98.1
20%	Vnom	276026.0	615.5	98.4	276203.0	615.5	98.4	276500.7	615.5	98.4	276113.0	615.5	98.4	276334.7	615.5	98.4
30%	Vnom	410625.3	615.3	98.4	410438.7	615.3	98.4	410238.7	615.3	98.4	410135.3	615.3	98.4	409764.7	615.3	98.4
50%	Vnom	686390.3	616.0	98.6	685508.7	615.8	98.5	686474.0	615.9	98.5	685894.7	615.9	98.6	685990.3	615.8	98.5
75%	Vnom	1023086.7	615.2	98.5	1023120.0	615.2	98.5	1024743.3	615.2	98.5	1025503.3	615.2	98.5	1024780.0	615.3	98.5
100%	Vnom	1363113.3	615.5	98.4	1365006.7	615.3	98.4	1365853.3	615.3	98.4	1369330.0	615.4	98.4	1365550.0	615.4	98.4
10%	Vmax	134271.7	801.2	97.7	134335.7	801.3	97.7	134122.0	801.2	97.8	134144.3	801.3	97.7	134191.7	801.2	97.7
20%	Vmax	274532.7	800.1	98.0	274452.7	800.2	98.0	274875.7	800.2	98.0	274379.0	800.2	98.0	274609.7	800.2	98.0
30%	Vmax	409691.0	800.1	98.0	409074.7	800.1	98.0	409367.7	800.1	98.0	409453.7	800.1	98.0	410001.0	800.2	98.0
50%	Vmax	683281.3	800.7	98.1	683230.7	800.8	98.1	683238.0	800.8	98.1	684123.3	800.8	98.1	683810.3	800.8	98.1
75%	Vmax	1020476.7	800.3	98.0	1021390.0	800.3	98.1	1021163.3	800.4	98.0	1021630.0	800.4	98.1	1021236.7	800.4	98.1
100%	Vmax	1366903.3	800.6	98.0	1370386.7	800.6	98.0	1369160.0	800.6	98.0	1366176.7	800.6	98.0	1371736.7	800.6	98.0

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	134661.7	552.7	98.5	134653.0	552.7	98.5									
20%	Vmin	277602.3	553.5	98.7	277328.3	553.5	98.7									
30%	Vmin	411114.0	552.3	98.8	411336.0	552.3	98.8									
50%	Vmin	688150.7	552.8	98.9	687735.3	552.8	98.9									
75%	Vmin	1026380.0	553.2	98.9	1026216.7	553.1	98.9									
100%	Vmin	1364310.0	553.2	98.7	1364480.0	553.2	98.7									
10%	Vnom	134329.7	615.7	98.1	134216.7	615.6	98.2									
20%	Vnom	276409.0	615.5	98.4	276037.7	615.5	98.4									
30%	Vnom	409968.7	615.3	98.4	410042.7	615.3	98.4									
50%	Vnom	687183.0	615.9	98.6	682032.7	615.9	98.5									
75%	Vnom	1027466.7	615.2	98.5	1028870.0	615.3	98.5									
100%	Vnom	1368146.7	615.3	98.4	1363850.0	615.4	98.4									
10%	Vmax	134260.0	801.2	97.7	134124.3	801.1	97.7									
20%	Vmax	274158.0	800.2	98.0	274620.3	800.3	98.0									
30%	Vmax	409937.3	800.1	98.0	409254.7	800.0	98.0									
50%	Vmax	683981.3	800.6	98.1	684126.7	800.8	98.1									
75%	Vmax	1020313.3	800.3	98.1	1021140.0	800.3	98.1									
100%	Vmax	1369786.7	800.7	98.0	1364140.0	800.6	98.0									