Manufacturer: Power Electronics

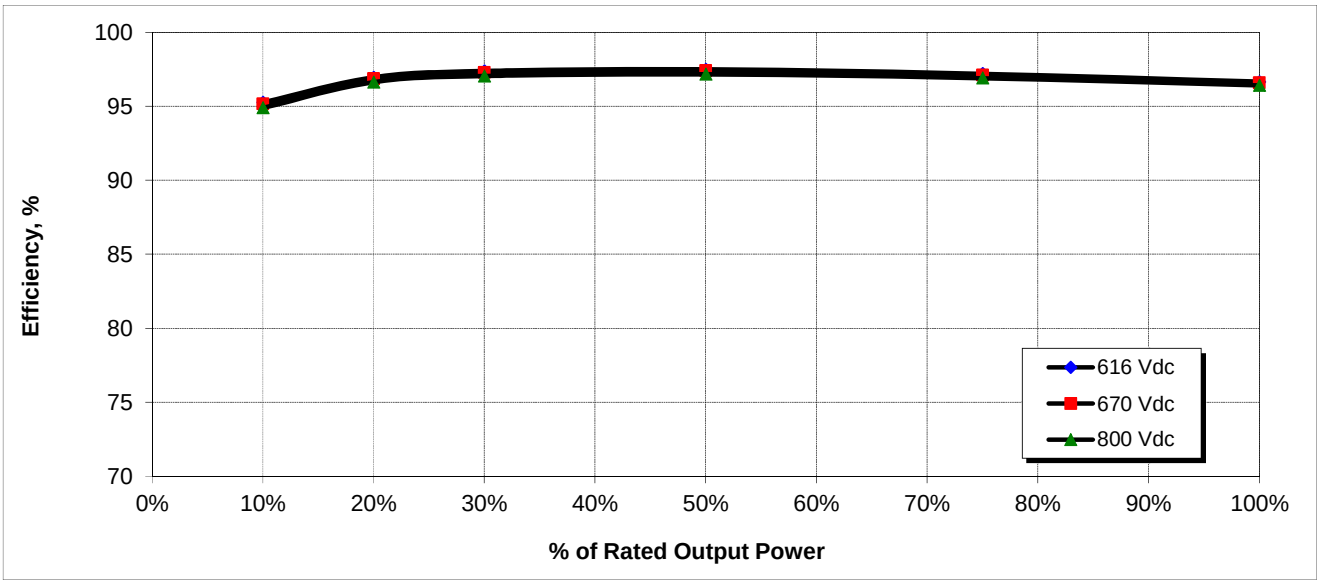
Model #: FS0940CU (420Vac)

Rated Maximum Continuous Output Power: 1050.0 kW Night Tare Loss: -274 W

Vmin: 616 Vdc Vnom: 670 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		105.00	210.00	315.00	525.00	787.50	1050.00	Wtd
Vmin	616	95.3	97.0	97.4	97.5	97.2	96.7	97.2
Vnom	670	95.2	96.9	97.3	97.4	97.1	96.6	97.1
Vmax	800	94.9	96.6	97.1	97.2	96.9	96.4	96.9

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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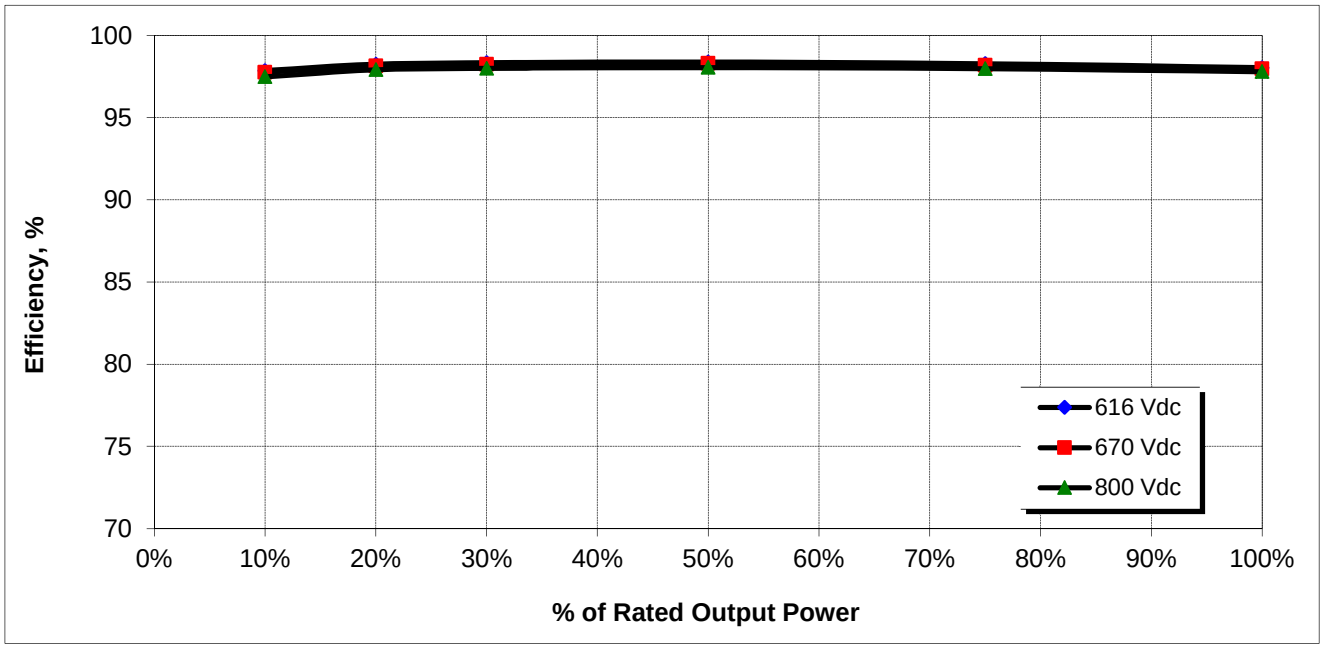
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		105.00	210.00	315.00	525.00	787.50	1050.00	Wtd
Vmin	616	97.9	98.3	98.3	98.4	98.3	98.0	98.3
Vnom	670	97.8	98.2	98.2	98.3	98.2	98.0	98.2
Vmax	800	97.5	97.9	98.0	98.0	98.0	97.8	98.0

Inverter Efficiency only = 98.0%



1050KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		105.00	210.00	315.00	525.00	787.50	1050.00	Wtd
Vmin	617	97.35	98.69	99.03	99.10	98.90	98.59	98.87
Vnom	670	97.35	98.69	99.03	99.10	98.90	98.59	98.87
Vmax	800	97.35	98.69	99.03	99.10	98.90	98.59	98.87

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	99372.2	616.9	97.9	99217.6	617.0	97.9	99164.7	617.0	97.9	99269.7	617.0	97.9	99386.8	617.0	97.9
20%	Vmin	219319.3	616.8	98.3	219857.3	616.8	98.2	219347.0	616.8	98.3	219063.7	616.8	98.3	219460.0	616.8	98.2
30%	Vmin	331578.0	616.8	98.3	330808.3	616.8	98.3	331329.7	616.9	98.3	330339.3	616.8	98.3	330931.7	616.9	98.3
50%	Vmin	535106.0	616.7	98.4	535822.7	616.7	98.4	536982.7	616.7	98.4	532966.3	616.7	98.4	535442.3	616.7	98.4
75%	Vmin	798871.7	616.6	98.3	799392.3	616.5	98.3	799938.0	616.6	98.3	798786.3	616.6	98.3	799340.3	616.6	98.3
100%	Vmin	1053066.7	616.5	98.0	1055183.3	616.5	98.0	1055263.3	616.5	98.0	1057703.3	616.4	98.0	1053933.3	616.4	98.0
10%	Vnom	99090.2	670.1	97.8	99211.7	670.1	97.8	99195.4	670.1	97.8	99071.1	670.2	97.8	99063.2	670.1	97.7
20%	Vnom	219223.7	671.0	98.2	219468.0	671.0	98.2	219420.7	670.9	98.2	219041.3	671.0	98.2	218834.7	670.9	98.2
30%	Vnom	330731.3	671.0	98.2	332057.3	670.9	98.2	330306.0	670.9	98.2	331136.0	670.9	98.2	330927.0	670.9	98.2
50%	Vnom	531969.3	670.9	98.3	535829.3	670.8	98.3	534809.7	670.9	98.3	535286.7	670.9	98.3	535811.7	670.8	98.3
75%	Vnom	797692.7	670.8	98.2	799322.7	670.8	98.2	799370.0	670.7	98.2	799254.7	670.8	98.2	796922.3	670.8	98.2
100%	Vnom	1056633.3	670.6	98.0	1055370.0	670.7	98.0	1054303.3	670.7	98.0	1054506.7	670.7	98.0	1055426.7	670.6	98.0
10%	Vmax	98967.5	800.6	97.5	99099.8	800.6	97.5	99153.4	800.7	97.5	99327.1	800.6	97.5	99000.9	800.7	97.5
20%	Vmax	218911.3	800.6	97.9	218679.7	800.5	97.9	218928.3	800.6	97.9	219314.3	800.5	97.9	219428.0	800.5	97.9
30%	Vmax	330166.3	800.6	98.0	331067.3	800.6	98.0	330335.3	800.6	98.0	329787.3	800.6	98.0	330502.3	800.6	98.0
50%	Vmax	531953.0	800.5	98.0	532971.3	800.5	98.0	532185.7	800.4	98.0	532876.3	800.5	98.0	534236.0	800.5	98.1
75%	Vmax	796224.0	800.4	98.0	796272.0	800.5	98.0	799916.0	800.4	98.0	796224.7	800.4	98.0	799057.0	800.5	98.0
100%	Vmax	1042593.3	800.4	97.8	1046210.0	800.3	97.8	1043676.7	800.4	97.8	1050200.0	800.4	97.8	1052013.3	800.4	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	99294.3	617.0	97.9	99429.9	617.0	97.9									
20%	Vmin	219278.3	616.8	98.3	218850.0	616.8	98.3									
30%	Vmin	331593.3	616.8	98.3	330657.3	616.8	98.3									
50%	Vmin	535594.3	616.7	98.4	536171.7	616.7	98.4									
75%	Vmin	800761.3	616.6	98.3	799452.0	616.6	98.3									
100%	Vmin	1056990.0	616.4	98.0	1052996.7	616.5	98.0									
10%	Vnom	99066.9	670.2	97.8	98957.2	670.1	97.7									
20%	Vnom	219807.3	671.0	98.2	218634.7	670.9	98.2									
30%	Vnom	330876.3	670.9	98.2	331036.3	670.9	98.2									
50%	Vnom	534318.3	670.8	98.3	533836.3	670.9	98.3									
75%	Vnom	798492.3	670.8	98.2	797376.7	670.7	98.2									
100%	Vnom	1053693.3	670.6	98.0	1055923.3	670.7	98.0									
10%	Vmax	99119.0	800.7	97.5	98894.2	800.7	97.5									
20%	Vmax	219332.7	800.6	97.9	219303.3	800.6	97.9									
30%	Vmax	330086.7	800.6	98.0	330438.7	800.5	98.0									
50%	Vmax	533260.7	800.5	98.1	532467.3	800.5	98.1									
75%	Vmax	796763.3	800.5	98.0	800003.3	800.5	98.0									
100%	Vmax	1054883.3	800.4	97.8	1052390.0	800.4	97.8									