Manufacturer: Power Electronics

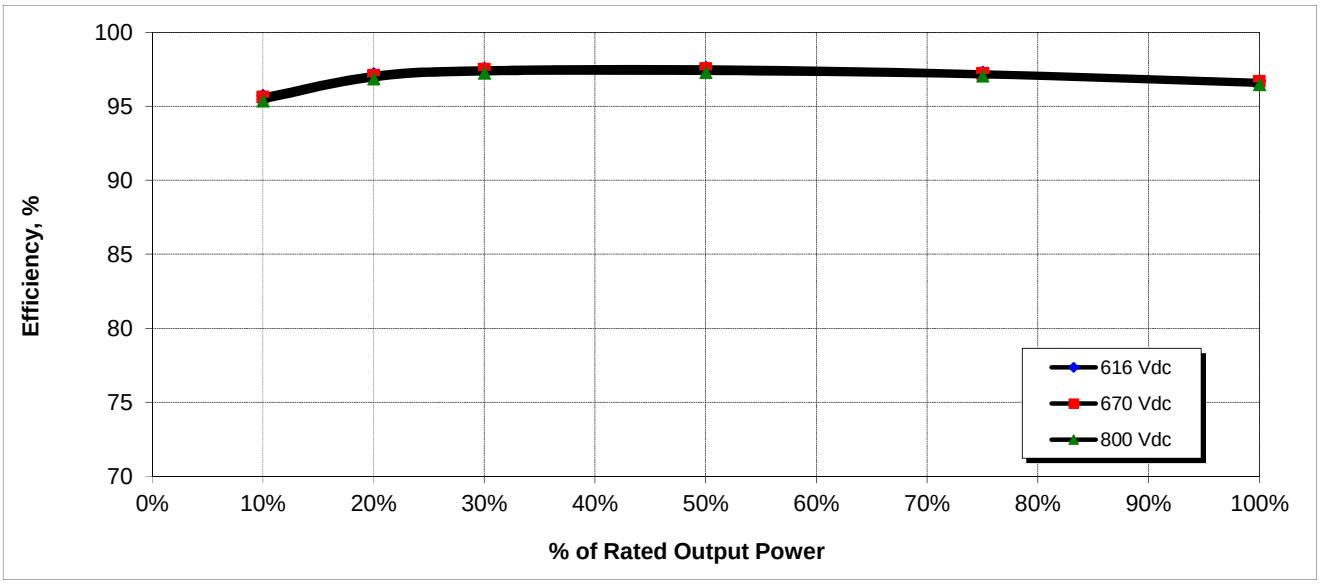
Model #: FS1901CU (420Vac)

Rated Maximum Continuous Output Power: 1900.0 kW Night Tare Loss: -363 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		190.00	380.00	570.00	950.00	1425.00	1900.00	Wtd
Vmin	616	95.7	97.2	97.6	97.6	97.3	96.7	97.3
Vnom	670	95.6	97.1	97.5	97.5	97.2	96.7	97.2
Vmax	800	95.4	96.8	97.2	97.3	97.0	96.5	97.0

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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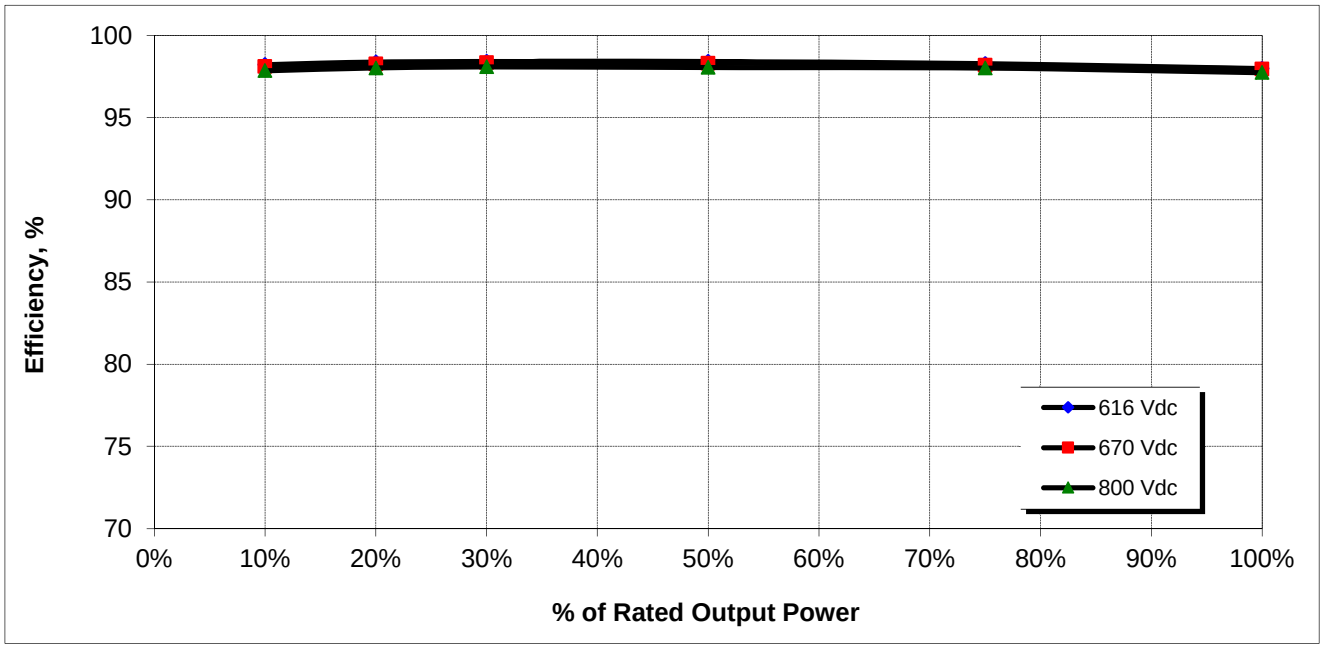
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		190.00	380.00	570.00	950.00	1425.00	1900.00	Wtd
Vmin	616	98.2	98.4	98.4	98.4	98.3	98.0	98.3
Vnom	670	98.1	98.3	98.3	98.3	98.2	98.0	98.2
Vmax	800	97.9	98.0	98.1	98.1	98.0	97.7	98.0

Inverter Efficiency only = 98.0%



1900KVA TP1 MV Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		190.00	380.00	570.00	950.00	1425.00	1900.00	Wtd
Vmin	616	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vnom	670	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	187943.0	616.6	98.2	188406.0	616.6	98.2	188724.3	616.5	98.2	188584.7	616.5	98.2	188901.0	616.5	98.2
20%	Vmin	384755.0	616.5	98.4	385237.3	616.5	98.4	383528.7	616.5	98.4	384158.3	616.4	98.4	385218.0	616.5	98.4
30%	Vmin	571611.7	617.4	98.4	571640.7	617.4	98.4	573068.3	617.4	98.4	572169.3	617.3	98.4	572737.3	617.3	98.4
50%	Vmin	962246.0	617.3	98.4	963410.0	617.2	98.4	963043.7	617.3	98.4	963893.3	617.3	98.4	964484.7	617.3	98.4
75%	Vmin	1432083.3	617.0	98.3	1428460.0	617.0	98.3	1432366.7	616.9	98.3	1429320.0	617.0	98.3	1429273.3	617.0	98.3
100%	Vmin	1907923.3	616.8	98.0	1909426.7	616.8	98.0	1908530.0	616.7	98.0	1909686.7	616.9	98.0	1912066.7	616.7	98.0
10%	Vnom	189018.7	670.6	98.1	188546.7	670.6	98.1	189185.0	670.6	98.1	189156.3	670.6	98.1	189008.3	670.6	98.1
20%	Vnom	384303.3	670.6	98.3	383161.3	670.5	98.3	384242.0	670.6	98.3	384911.7	670.6	98.3	384567.3	670.6	98.3
30%	Vnom	574655.0	671.5	98.3	571949.0	671.4	98.3	572630.3	671.5	98.3	573809.0	671.5	98.3	572184.7	671.5	98.3
50%	Vnom	959763.3	671.5	98.3	965334.0	671.4	98.3	962096.7	671.5	98.3	961019.0	671.5	98.3	961518.3	671.5	98.3
75%	Vnom	1426830.0	671.2	98.2	1431606.7	671.2	98.2	1429506.7	671.3	98.2	1430696.7	671.2	98.2	1430703.3	671.2	98.2
100%	Vnom	1906596.7	670.0	98.0	1903836.7	670.0	98.0	1910960.0	670.0	98.0	1904683.3	670.0	98.0	1907050.0	670.0	98.0
10%	Vmax	187882.3	802.1	97.9	188636.0	802.0	97.9	187707.7	802.1	97.8	188352.7	802.1	97.9	188135.3	802.0	97.8
20%	Vmax	382021.0	802.0	98.0	383593.0	802.1	98.0	383237.3	802.1	98.0	384453.7	802.1	98.0	382651.7	802.1	98.0
30%	Vmax	570713.0	802.2	98.1	570963.0	802.1	98.1	573237.0	802.1	98.1	571623.7	802.1	98.1	573240.0	802.1	98.1
50%	Vmax	959604.0	802.2	98.0	957553.0	802.1	98.0	958680.7	802.1	98.1	958322.0	802.1	98.1	958414.3	802.1	98.1
75%	Vmax	1424170.0	803.8	98.0	1426033.3	803.9	98.0	1426460.0	803.8	98.0	1426766.7	803.8	98.0	1427446.7	803.9	98.0
100%	Vmax	1901560.0	802.8	97.7	1904976.7	802.9	97.7	1897910.0	802.8	97.7	1907410.0	802.7	97.7	1902870.0	802.9	97.7

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	188813.0	616.5	98.2	188723.3	616.5	98.2									
20%	Vmin	383583.3	616.4	98.4	384287.3	616.4	98.4									
30%	Vmin	573362.0	617.4	98.4	574084.7	617.4	98.4									
50%	Vmin	964475.0	617.3	98.4	965288.3	617.2	98.4									
75%	Vmin	1430080.0	617.0	98.3	1429513.3	617.0	98.3									
100%	Vmin	1911360.0	616.7	98.0	1911583.3	616.8	98.0									
10%	Vnom	188765.0	670.6	98.1	189248.7	670.6	98.1									
20%	Vnom	385103.7	670.5	98.3	383904.3	670.6	98.3									
30%	Vnom	573411.3	671.4	98.3	575625.3	671.5	98.3									
50%	Vnom	960601.0	671.5	98.3	965874.3	671.4	98.3									
75%	Vnom	1430973.3	671.3	98.2	1430963.3	671.2	98.2									
100%	Vnom	1910113.3	670.0	98.0	1907310.0	670.1	98.0									
10%	Vmax	188606.3	802.0	97.9	188683.7	802.0	97.9									
20%	Vmax	385011.3	802.1	98.0	384129.0	802.0	98.0									
30%	Vmax	572561.3	802.1	98.1	571307.0	802.1	98.1									
50%	Vmax	958579.3	802.2	98.1	960250.0	802.1	98.1									
75%	Vmax	1426163.3	803.9	98.0	1426196.7	803.8	98.0									
100%	Vmax	1906173.3	802.9	97.7	1906756.7	802.8	97.7									