Manufacturer: Satcon Power Systems

Model #: PVS-250 (480Vac)

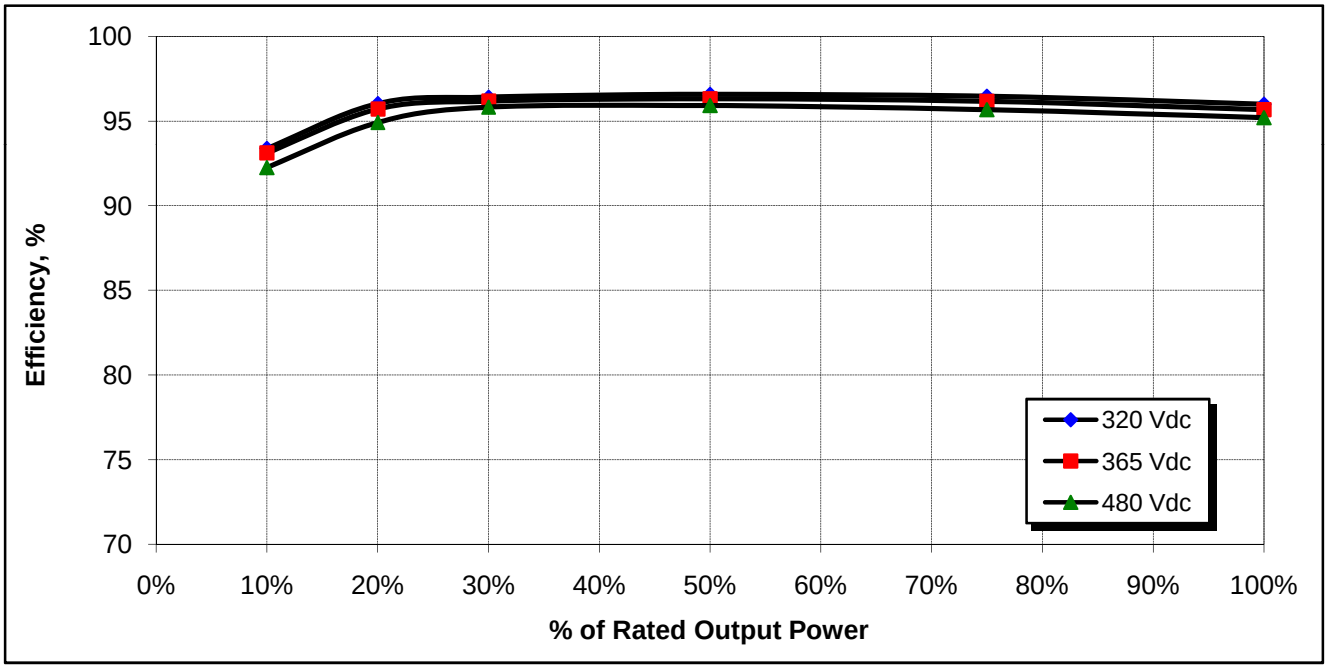
Rated Maximum Continuous Output Power @25°C: 250.0 kW Night Tare Loss: 119.70 W

Rated Maximum Continuous Output Power @40°C: 250.0 kW Night Tare Loss: 119.70 W

Vmin: 320 Vdc Vnom: 365 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		25.00	50.00	75.00	125.00	187.50	250.00	Wtd
Vmin	320	93.4	96.0	96.4	96.6	96.5	96.0	96.3
Vnom	365	93.1	95.7	96.2	96.3	96.2	95.7	96.0
Vmax	480	92.3	94.9	95.8	95.9	95.7	95.2	95.5

CEC Efficiency = 96.0%



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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	22517.8	318.2	93.0	22507.7	318.3	93.0	22485.9	318.4	93.2	24234.6	317.0	93.8	22516.5	318.3	93.4
20%	Vmin	52578.1	317.9	96.1	52565.9	317.6	96.1	52551.9	317.9	96.0	52579.9	317.6	96.1	52590.3	317.9	96.1
30%	Vmin	80048.8	318.3	96.5	80048.8	317.1	96.5	80066.0	318.3	96.4	80040.8	317.2	96.4	80030.7	318.0	96.3
50%	Vmin	135029.0	318.3	96.5	135830.3	318.3	96.6	135865.3	318.7	96.5	135043.3	317.6	96.6	135013.7	318.1	96.6
75%	Vmin	177345.0	318.6	96.4	177480.3	318.9	96.5	177509.3	317.8	96.5	177443.7	318.5	96.4	177381.0	318.8	96.4
100%	Vmin	238262.3	320.1	96.0	237436.3	320.8	96.0	237345.3	319.1	96.0	237251.3	318.1	96.0	238999.3	317.8	96.0
10%	Vnom	22701.5	365.7	93.2	22726.5	366.6	93.1	22739.9	366.7	93.0	22727.8	365.3	93.0	22741.1	367.5	92.9
20%	Vnom	52720.6	367.2	95.7	52660.0	367.2	95.6	52640.0	365.9	95.7	52643.9	367.1	95.7	52659.6	365.5	95.9
30%	Vnom	80153.0	365.3	96.2	80157.9	367.0	96.1	80142.2	365.3	96.2	80169.3	366.8	96.2	80163.8	365.6	96.2
50%	Vnom	136016.7	365.1	96.3	135181.7	367.3	96.3	135107.7	365.1	96.3	135131.3	366.0	96.4	135141.3	366.3	96.3
75%	Vnom	175130.7	366.2	96.2	175210.3	365.7	96.2	175160.7	365.9	96.1	175047.3	365.4	96.1	175071.0	367.4	96.1
100%	Vnom	237401.7	365.2	95.6	237421.0	366.0	95.7	237496.7	366.1	95.7	237575.3	366.3	95.7	238335.3	366.1	95.7
10%	Vmax	22854.8	477.6	91.8	22829.8	473.6	91.8	22833.7	476.5	92.4	22848.8	474.3	92.5	22795.1	476.0	92.3
20%	Vmax	52819.6	476.3	95.0	52837.6	474.4	94.9	52843.1	477.7	94.9	52874.5	475.1	94.9	52838.1	475.5	94.9
30%	Vmax	80375.9	477.4	95.9	80367.6	474.4	95.9	80343.3	477.8	95.9	80336.5	474.2	95.9	80356.1	478.0	95.8
50%	Vmax	135388.0	475.1	95.9	135381.3	474.9	95.9	135341.0	477.4	95.9	135313.0	474.1	96.0	135391.7	476.8	95.9
75%	Vmax	175202.3	476.2	95.6	175368.3	477.9	95.6	175411.3	475.4	95.7	175327.0	474.2	95.7	175259.0	476.5	95.6
100%	Vmax	237649.7	474.8	95.2	237605.7	475.8	95.2	237615.3	476.6	95.2	237653.0	476.1	95.2	237648.3	474.3	95.2

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	22493.8	317.5	93.5	22572.9	317.7	93.7									
20%	Vmin	52558.7	317.6	95.9	52573.7	317.9	96.0									
30%	Vmin	80050.4	317.6	96.4	80075.1	317.7	96.4									
50%	Vmin	135006.7	316.9	96.6	135073.0	318.5	96.6									
75%	Vmin	177474.7	317.5	96.5	177528.3	318.8	96.5									
100%	Vmin	239940.0	317.7	96.0	239984.7	318.5	96.0									
10%	Vnom	22737.8	365.6	93.2	22749.5	366.8	93.4									
20%	Vnom	52719.4	367.2	95.7	52651.0	365.3	95.8									
30%	Vnom	80178.6	366.6	96.2	80198.2	365.8	96.2									
50%	Vnom	135101.7	365.3	96.3	135129.0	367.0	96.3									
75%	Vnom	175154.3	365.2	96.2	175120.3	365.6	96.2									
100%	Vnom	240002.7	365.3	95.7	239979.3	366.1	95.7									
10%	Vmax	22807.1	475.1	92.5	22802.9	474.4	92.6									
20%	Vmax	52890.6	477.3	94.9	52864.2	474.3	94.9									
30%	Vmax	80368.0	474.1	95.8	80384.1	478.1	95.7									
50%	Vmax	135390.0	475.9	95.9	135336.0	474.8	95.8									
75%	Vmax	175270.3	476.6	95.6	175361.3	474.0	95.8									
100%	Vmax	237654.7	474.6	95.2	237624.7	476.3	95.2									