Manufacturer: PV Powered

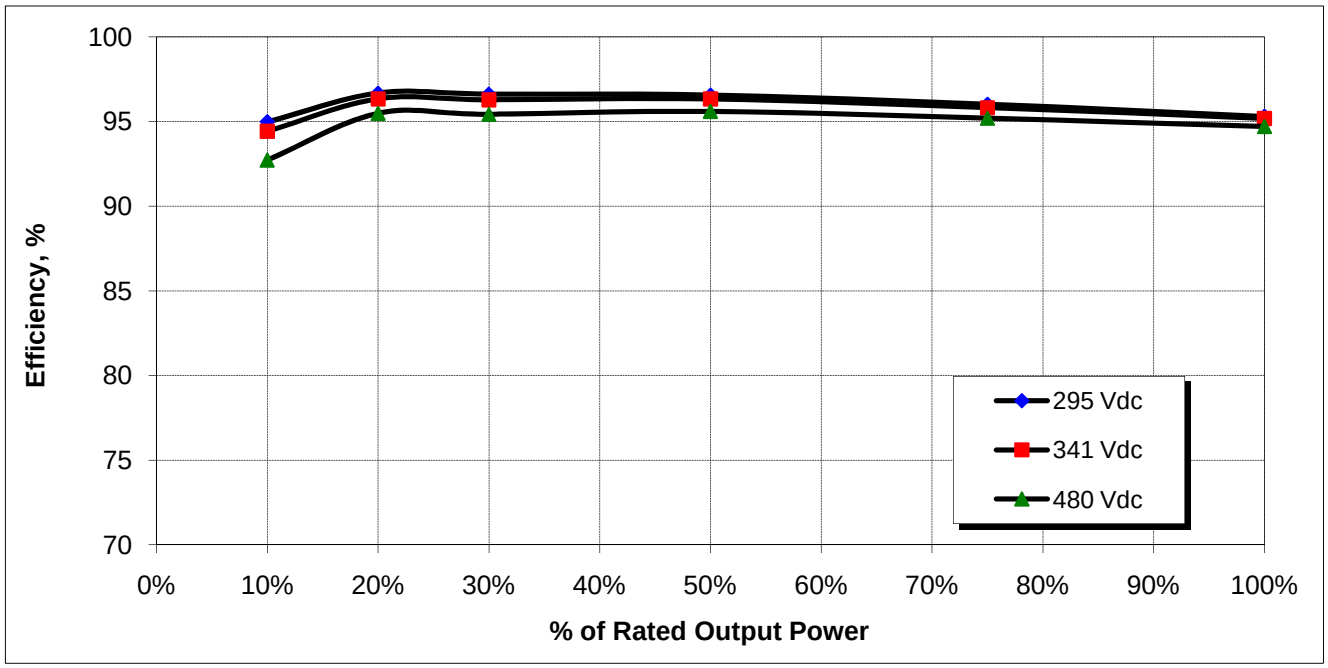
Model #: PVP50kW-208

Rated Maximum Continuous Output Power: 50.00 kW Night Tare Loss: 33.00 W

Vmin: 295 Vdc Vnom: 341 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		5.00	10.00	15.00	25.00	37.50	50.00	Wtd
Vmin	295	95.0	96.7	96.6	96.6	96.0	95.3	96.2
Vnom	341	94.4	96.3	96.3	96.3	95.8	95.2	95.9
Vmax	480	92.7	95.5	95.4	95.6	95.2	94.7	95.2

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	4994.7	296.0	95.15	4992.8	296.0	94.95	4993.0	296.0	94.85	4990.8	296.0	94.99	4992.7	296.0	94.88
20%	Vmin	10993.0	295.7	96.66	10994.0	295.7	96.65	10993.0	295.7	96.65	10993.0	295.7	96.70	10992.0	295.7	96.66
30%	Vmin	16238.0	295.5	96.63	16240.0	295.5	96.59	16238.0	295.5	96.59	16239.0	295.5	96.66	16237.0	295.5	96.60
50%	Vmin	22525.0	295.7	96.58	22523.0	295.7	96.55	22524.0	295.7	96.58	22523.0	295.7	96.56	22526.0	295.7	96.57
75%	Vmin	35011.0	295.2	96.03	35015.0	295.2	96.02	35015.0	295.2	96.03	35010.0	295.2	96.02	35014.0	295.2	96.00
100%	Vmin	47518.0	295.1	95.30	47520.0	295.1	95.31	47521.0	295.1	95.31	47519.0	295.1	95.30	47520.0	295.1	95.32
10%	Vnom	4994.9	341.7	94.44	4991.6	341.7	94.28	4990.5	341.7	94.54	4992.6	341.7	94.40	4991.4	341.7	94.51
20%	Vnom	10993.0	341.3	96.39	10996.0	341.3	96.34	10994.0	341.3	96.24	10995.0	341.3	96.33	10993.0	341.3	96.37
30%	Vnom	16245.0	341.2	96.26	16246.0	341.2	96.22	16243.0	341.2	96.28	16244.0	341.2	96.26	16239.0	341.2	96.28
50%	Vnom	22509.0	341.7	96.31	22509.0	341.7	96.31	22508.0	341.7	96.31	22511.0	341.7	96.33	22507.0	341.7	96.31
75%	Vnom	35014.0	341.3	95.84	35020.0	341.3	95.82	35023.0	341.3	95.83	35020.0	341.3	95.82	35022.0	341.3	95.79
100%	Vnom	47503.0	341.3	95.15	47506.0	341.3	95.18	47509.0	341.3	95.20	47516.0	341.3	95.20	47510.0	341.3	95.20
10%	Vmax	4984.5	480.8	92.65	4985.6	480.8	92.44	4985.9	480.8	92.70	4986.5	480.8	92.97	4989.3	480.8	92.54
20%	Vmax	10993.0	480.7	95.57	10994.0	480.7	95.42	10992.0	480.7	95.45	10993.0	480.7	95.51	10992.0	480.7	95.35
30%	Vmax	16240.0	480.9	95.49	16238.0	481.0	95.38	16238.0	480.9	95.41	16229.0	481.0	95.39	16231.0	480.9	95.41
50%	Vmax	22520.0	480.6	95.58	22523.0	480.6	95.60	22518.0	480.6	95.62	22519.0	480.6	95.67	22521.0	480.6	95.56
75%	Vmax	35001.0	480.8	95.17	35005.0	480.8	95.22	35006.0	480.8	95.22	35006.0	480.8	95.17	35003.0	480.8	95.24
100%	Vmax	47504.0	480.4	94.68	47507.0	480.4	94.73	47510.0	480.4	94.70	47512.0	480.4	94.69	47505.0	480.4	94.67

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	4994.2	296.0	94.98	4995.9	296.1	94.96	4993.5	296.1	95.09						
20%	Vmin	10994.0	295.7	96.765	10993.0	295.7	96.636	10997.0	295.7	96.689						
30%	Vmin	16240.0	295.5	96.619	16238.0	295.5	96.641	16237.0	295.5	96.584						
50%	Vmin	22525.0	295.7	96.544	22526.0	295.7	96.578	22525.0	295.7	96.543						
75%	Vmin	35018.0	295.2	96.014	35015.0	295.2	96.020	35015.0	295.2	96.021						
100%	Vmin	47522.0	295.1	95.316	47524.0	295.1	95.317	47517.0	295.1	95.297						
10%	Vnom	4989.6	341.7	94.392	4995.8	341.7	94.427	4998.5	341.7	94.412						
20%	Vnom	10991.0	341.3	96.348	10993.0	341.3	96.339	10992.0	341.3	96.333						
30%	Vnom	16244.0	341.2	96.296	16245.0	341.2	96.279	16244.0	341.2	96.345						
50%	Vnom	22510.0	341.7	96.338	22506.0	341.7	96.366	22508.0	341.7	96.336						
75%	Vnom	35022.0	341.3	95.803	35024.0	341.3	95.816	35021.0	341.3	95.793						
100%	Vnom	47508.0	341.3	95.185	47513.0	341.3	95.175	47512.0	341.3	95.185						
10%	Vmax	4987.5	480.8	92.940	4986.9	480.8	92.817	4985.6	480.8	92.778						
20%	Vmax	10993.0	480.7	95.512	10990.0	480.7	95.507	10991.0	480.7	95.521						
30%	Vmax	16225.0	481.0	95.430	16237.0	481.0	95.441	16235.0	481.0	95.436						
50%	Vmax	22520.0	480.6	95.537	22518.0	480.6	95.608	22520.0	480.6	95.592						
75%	Vmax	35012.0	480.8	95.181	35015.0	480.7	95.201	35009.0	480.8	95.163						
100%	Vmax	47509.0	480.4	94.685	47513.0	480.4	94.697	47512.0	480.4	94.729						