Manufacturer: PV Powered

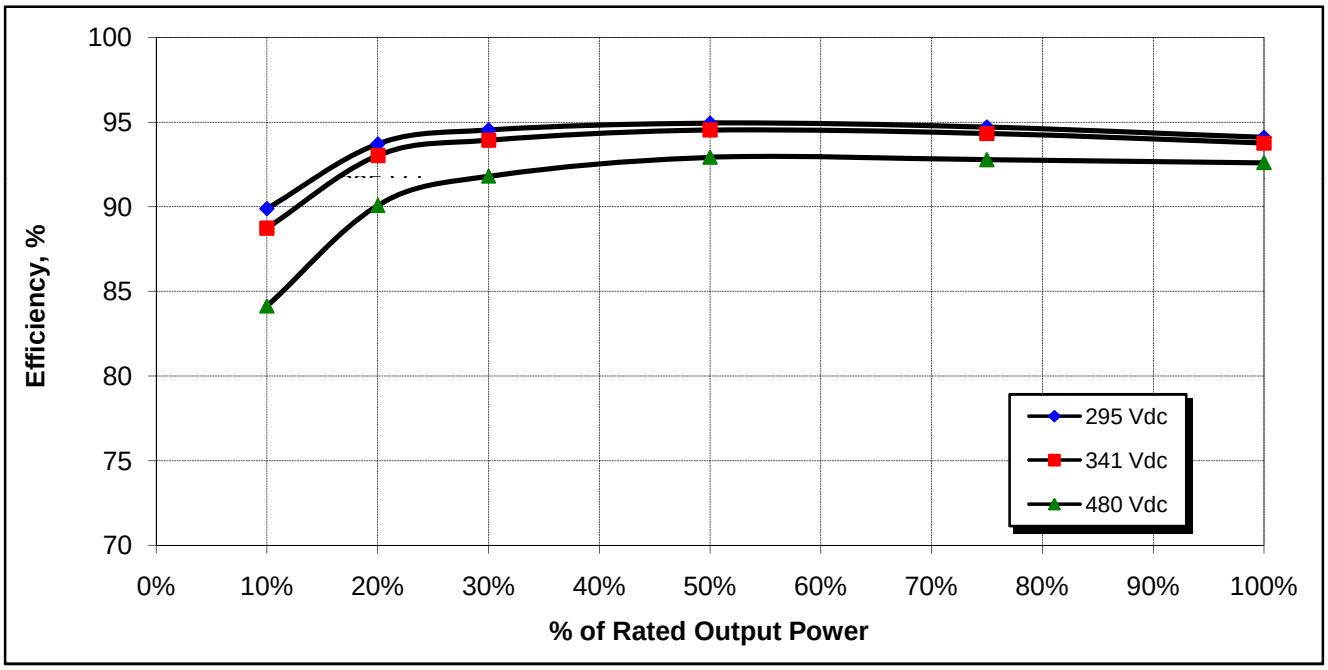
Model #: PVP30kW-LV-480

Rated Maximum Continuous Output Power: 30.00 kW Night Tare Loss: 22.00 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		3.00	6.00	9.00	15.00	22.50	30.00	Wtd
Vmin	295	89.9	93.7	94.5	94.9	94.7	94.1	94.5
Vnom	341	88.7	93.0	93.9	94.5	94.3	93.8	94.0
Vmax	480	84.1	90.1	91.8	92.9	92.8	92.6	92.2

CEC Efficiency = 93.5%



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	2991.4	296.8	89.88	2992.8	296.8	89.88	2992.1	296.8	89.95	2989.3	296.8	89.80	2977.9	296.8	89.95
20%	Vmin	6568.8	296.7	93.72	6570.1	296.6	93.73	6575.8	296.6	93.73	6571.5	296.6	93.74	6565.0	296.6	93.70
30%	Vmin	9719.4	296.5	94.62	9717.9	296.5	94.62	9713.6	296.5	94.64	9724.0	296.5	94.63	9724.1	296.5	94.60
50%	Vmin	16428.0	296.1	95.05	16425.0	296.1	94.91	16407.0	296.1	94.84	16423.0	296.1	94.88	16437.0	296.1	94.88
75%	Vmin	23936.0	295.7	94.68	23936.0	295.7	94.68	23948.0	295.7	94.69	23943.0	295.7	94.69	23941.0	295.7	94.70
100%	Vmin	28544.0	295.4	94.11	28516.0	295.4	94.11	28512.0	295.4	94.11	28510.0	295.4	94.10	28505.0	295.4	94.11
10%	Vnom	2986.8	341.9	88.76	2984.6	341.9	88.73	2985.0	341.8	88.69	2985.8	341.9	88.73	2985.8	341.8	88.73
20%	Vnom	6566.6	342.6	93.06	6564.3	342.6	93.05	6563.4	342.6	93.04	6563.7	342.6	93.02	6564.4	342.6	92.97
30%	Vnom	9737.1	342.5	94.04	9708.7	342.5	93.72	9703.7	342.5	93.76	9708.4	342.5	93.74	9708.1	342.5	93.75
50%	Vnom	16444.0	342.2	94.64	16434.0	342.2	94.60	16410.0	342.2	94.46	16410.0	342.2	94.45	16417.0	342.2	94.47
75%	Vnom	23947.0	341.8	94.33	23964.0	341.8	94.33	23959.0	341.8	94.34	23966.0	341.8	94.34	23955.0	341.8	94.35
100%	Vnom	28636.0	341.6	93.75	28667.0	341.6	93.76	28684.0	341.6	93.76	28685.0	341.6	93.78	28690.0	341.6	93.77
10%	Vmax	2987.3	481.6	84.24	2988.0	481.6	84.14	2989.2	481.6	84.14	2990.1	481.6	84.20	2990.4	481.6	84.08
20%	Vmax	6549.0	481.5	90.22	6546.4	481.5	90.20	6547.2	481.5	90.17	6549.0	481.4	90.23	6548.9	481.5	90.24
30%	Vmax	9722.3	481.4	91.55	9720.1	481.4	91.66	9715.3	481.4	91.67	9731.5	481.4	91.72	9744.9	481.4	92.00
50%	Vmax	16430.0	481.2	92.86	16433.0	481.2	92.87	16432.0	481.2	92.88	16427.0	481.2	92.89	16439.0	481.2	92.90
75%	Vmax	23967.0	480.9	92.78	23957.0	480.9	92.77	23957.0	481.0	92.78	23972.0	480.9	92.77	23994.0	481.0	92.79
100%	Vmax	28523.0	480.8	92.61	28541.0	480.8	92.61	28557.0	480.8	92.61	28567.0	480.8	92.60	28571.0	480.8	92.61

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	2975.8	296.8	89.91	2977.1	296.8	89.89	2978.0	296.8	89.89	2979.7	296.8	89.91	2981.6	296.8	89.90
20%	Vmin	6571.8	296.6	93.671	6573.2	296.6	93.757	6579.1	296.6	93.688	6577.2	296.6	93.702	6570.4	296.6	93.667
30%	Vmin	9721.6	296.5	94.676	9723.0	296.5	94.642	9706.7	296.5	94.435	9692.4	296.5	94.314	9691.3	296.5	94.323
50%	Vmin	16444.0	296.1	94.871	16431.0	296.1	94.886	16437.0	296.1	94.953	16453.0	296.1	95.086	16451.0	296.2	95.076
75%	Vmin	23920.0	295.7	94.679	23918.0	295.7	94.683	23933.0	295.7	94.718	23959.0	295.7	94.807	23969.0	295.7	94.799
100%	Vmin	28513.0	295.5	94.109	28512.0	295.4	94.118	28510.0	295.4	94.111	28513.0	295.4	94.108			
10%	Vnom	2986.9	341.9	88.769	2989.8	341.8	88.767	2989.0	341.8	88.677	2989.0	341.8	88.755	2989.2	341.8	88.772
20%	Vnom	6564.8	342.6	93.020	6563.6	342.6	93.027	6563.9	342.6	92.993	6566.5	342.6	93.035	6569.0	342.6	93.032
30%	Vnom	9739.1	342.5	93.967	9740.4	342.5	94.125	9742.8	342.5	94.096	9744.4	342.5	94.085	9736.2	342.5	94.112
50%	Vnom	16410.0	342.2	94.476	16410.0	342.2	94.496	16411.0	342.2	94.478	16426.0	342.2	94.613	16447.0	342.2	94.694
75%	Vnom	23791.0	341.8	94.330	23808.0	341.8	94.324	23849.0	341.8	94.338	23867.0	341.8	94.356	23866.0	341.8	94.347
100%	Vnom	28690.0	341.6	93.789	28685.0	341.6	93.784	28698.0	341.6	93.801	28703.0	341.6	93.783	28696.0	341.6	93.783
10%	Vmax	2989.7	481.6	84.200	2989.7	481.6	84.042	2990.4	481.6	84.082	2991.0	481.6	84.154	2992.7	481.6	84.083
20%	Vmax	6551.1	481.5	90.162	6546.4	481.5	90.246	6514.0	481.5	89.790	6514.3	481.5	89.704	6515.2	481.5	89.790
30%	Vmax	9726.3	481.4	91.973	9731.5	481.4	91.885	9742.1	481.4	91.894	9744.2	481.4	91.880	9733.6	481.4	91.857
50%	Vmax	16441.0	481.2	92.937	16440.0	481.2	92.891	16433.0	481.2	92.927	16437.0	481.2	92.957	16467.0	481.2	93.115
75%	Vmax	23985.0	480.9	92.776	23979.0	480.9	92.767	23982.0	480.9	92.773	23984.0	480.9	92.761	23976.0	480.9	92.781
100%	Vmax	28585.0	480.8	92.618	28598.0	480.8	92.597	28616.0	480.8	92.590	28616.0	480.8	92.597	28597.0	480.8	92.588