Manufacturer: PV Powered, Inc.

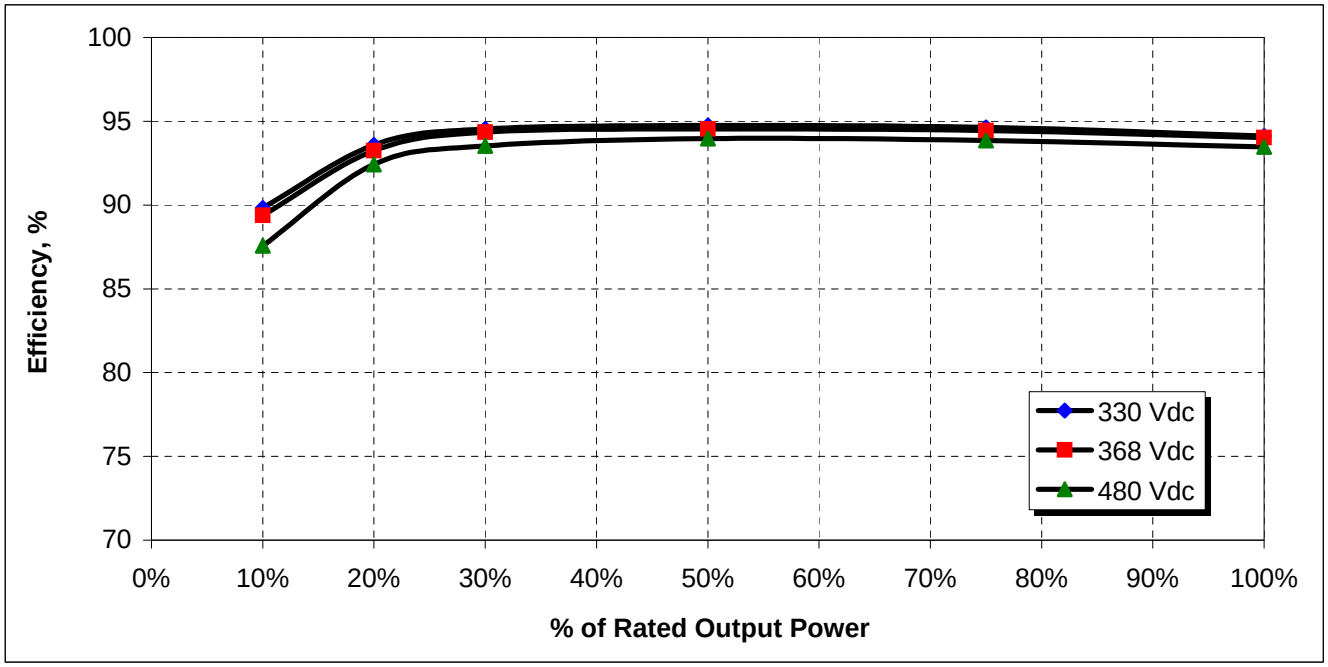
Model #: PVP30KW-208

Rated Maximum Continuous Output Power @25°C: 30.0 kW Night Tare Loss: 17.0 W
Rated Maximum Continuous Output Power @40°C: 30.0 kW Night Tare Loss: 17.0 W

Vmin: 330 Vdc Vnom: 368 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	330	89.8	93.6	94.5	94.7	94.6	94.1	94.37
Vnom	368	89.4	93.2	94.3	94.5	94.4	94.0	94.17
Vmax	480	87.6	92.4	93.5	94.0	93.9	93.5	93.49

CEC Efficiency = 94.0%



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	2980.6	331.54	89.998	2980.6	331.48	89.876	2980.9	331.49	89.784	2981	331.55	89.745	2981.6	331.63	89.726
20%	Vmin	6544.7	331.16	93.585	6547.6	331.29	93.588	6550	331.44	93.620	6551.2	331.52	93.605	6552.7	331.6	93.573
30%	Vmin	9703.13	331.66	94.582	9691.4	331.59	94.492	9688.7	331.63	94.441	9690.7	331.8	94.445	9697.9	331.92	94.500
50%	Vmin	16426	330.61	94.733	16422	330.66	94.706	16423	330.76	94.701	16425	330.88	94.701	16434	331.08	94.717
75%	Vmin	21119.3	331.03	94.544	21090	330.86	94.563	21098	330.81	94.579	21096	330.67	94.594	21112	330.67	94.664
100%	Vmin	28577.7	331.13	94.132	28576	331.14	94.126	28558	330.91	94.116	28546	330.74	94.118	28537	330.54	94.119
10%	Vnom	2968.13	369.05	89.340	2967.3	368.71	89.406	2965.6	368.41	89.347	2963.1	367.96	89.379	2964.7	368.18	89.415
20%	Vnom	6548.1	368.97	93.283	6549.8	369.05	93.267	6550.6	369.09	93.251	6550.2	369.06	93.258	6550.1	369.04	93.233
30%	Vnom	9706.7	369.38	94.344	9700.4	369.4	94.285	9697	369.37	94.262	9695.5	369.39	94.253	9703.4	369.39	94.321
50%	Vnom	16439.3	368.52	94.515	16437	368.61	94.482	16438	368.65	94.471	16437	368.62	94.487	16448	368.78	94.514
75%	Vnom	21140	370.24	94.426	21146	370.43	94.420	21152	370.34	94.426	21147	370.21	94.422	21137	370	94.428
100%	Vnom	28508	368.04	94.004	28513	368.05	94.011	28511	368.06	94.020	28509	368.14	94.011	28515	368.2	94.012
10%	Vmax	2974.47	482.53	87.546	2975	482.7	87.643	2976	483.02	87.624	2977.3	483.32	87.592	2977.7	483.43	87.573
20%	Vmax	6553.8	481.84	92.467	6553.2	481.76	92.452	6553.2	481.79	92.448	6553.9	481.88	92.411	6553.4	481.89	92.391
30%	Vmax	9703.23	481.6	93.432	9696.3	481.61	93.404	9692.5	481.57	93.428	9691.7	481.58	93.435	9695.1	481.37	93.510
50%	Vmax	16448.7	482.12	93.849	16450	481.99	93.853	16466	481.93	93.943	16471	481.76	93.998	16464	481.46	94.012
75%	Vmax	21190	482.9	93.864	21194	483.12	93.851	21206	483.44	93.855	21206	483.53	93.862	21196	483.36	93.862
100%	Vmax	28550	481.35	93.457	28535	481.1	93.455	28555	481.54	93.456	28601	482.47	93.462	28630	483.03	93.464

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	2982.27	331.71	89.822	2982.9	331.81	89.785									
20%	Vmin	6551.87	331.57	93.544	6550.3	331.45	93.506									
30%	Vmin	9714.7	332.02	94.648	9722.1	332.07	94.689									
50%	Vmin	16457.3	331.32	94.808	16475	331.51	94.862									
75%	Vmin	21128.3	330.79	94.703	21138	330.9	94.724									
100%	Vmin	28532.7	330.45	94.126	28555	331.31	94.128									
10%	Vnom	2966.47	368.58	89.377	2968.6	368.88	89.383									
20%	Vnom	6550.03	369.05	93.218	6549.4	369.02	93.227									
30%	Vnom	9711.3	369.16	94.462	9697.5	368.31	94.502									
50%	Vnom	16466.3	368.86	94.601	16475	368.87	94.644									
75%	Vnom	21142	369.93	94.471	21160	370.02	94.528									
100%	Vnom	28516.3	368.16	94.022	28510	368.01	94.026									
10%	Vmax	2977.7	483.54	87.509	2977.1	483.44	87.464									
20%	Vmax	6551.8	481.72	92.387	6547.9	481.42	92.364									
30%	Vmax	9706.5	481.25	93.665	9711.2	481.19	93.755									
50%	Vmax	16460	481.33	94.018	16454	481.14	94.023									
75%	Vmax	21190	483.19	93.854	21192	483.23	93.861									
100%	Vmax	28636.7	483.15	93.467	28633	483.06	93.471									