Manufacturer: Advanced Energy Industries

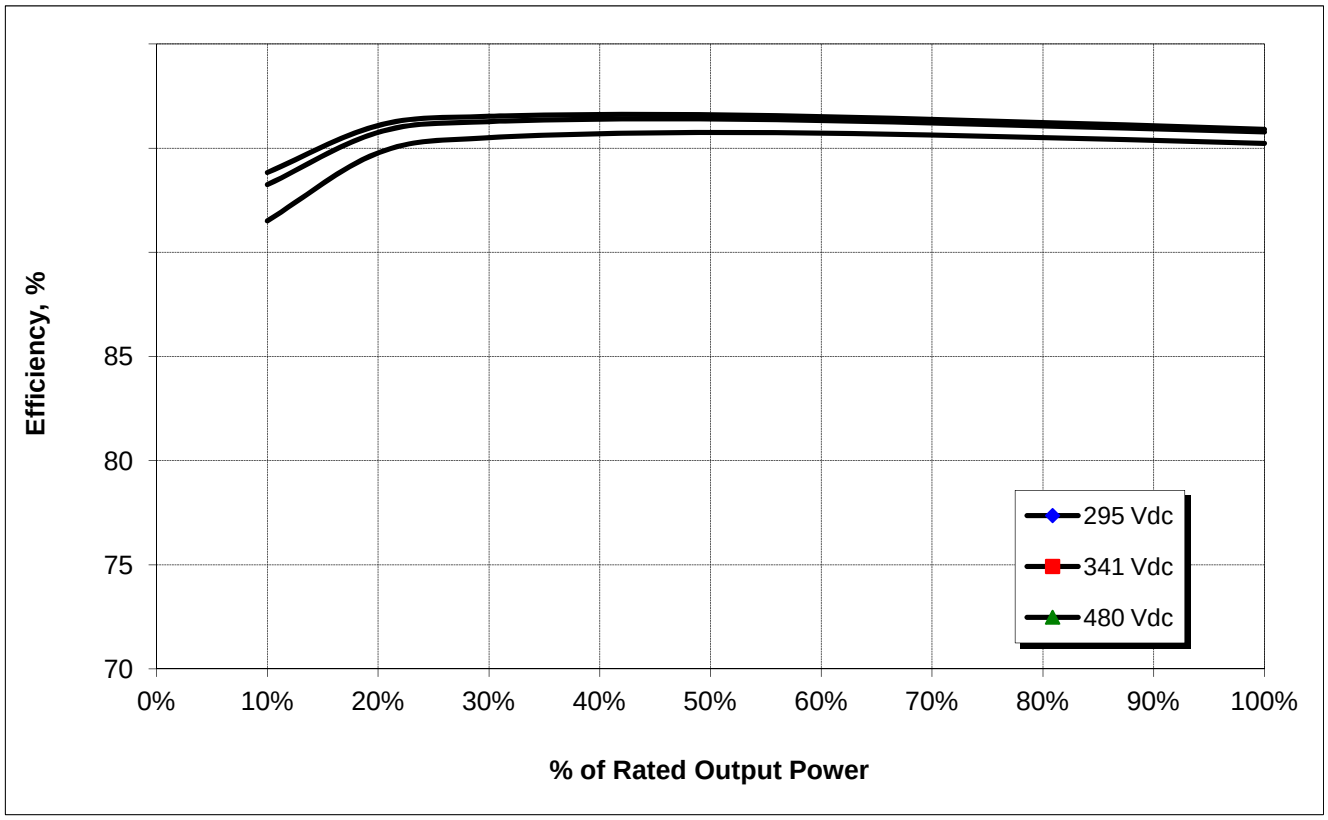
Model #: PVP100kW-600

Rated Maximum Continuous Output Power: 100.00 kW Night Tare Loss: 99.56 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		10.00	20.00	30.00	50.00	75.00	100.00	Wtd
Vmin	295	93.8	96.1	96.5	96.6	96.3	95.9	96.3
Vnom	341	93.2	95.8	96.3	96.4	96.1	95.8	96.1
Vmax	480	91.5	94.8	95.5	95.8	95.6	95.2	95.4

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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	9843.0	296.0	93.85	9830.0	296.0	93.85	9831.0	296.0	93.84	9830.0	296.0	93.84	9817.0	296.0	93.84
20%	Vmin	21835.0	295.8	96.09	21845.0	295.8	96.09	21823.0	295.8	96.09	21826.0	295.8	96.09	21829.0	295.8	96.08
30%	Vmin	32365.0	296.0	96.52	32367.0	296.0	96.52	32369.0	296.0	96.53	32369.0	296.0	96.52	32374.0	296.0	96.53
50%	Vmin	45172.0	295.9	96.59	45176.0	295.9	96.59	45161.0	295.9	96.60	45163.0	295.9	96.60	45158.0	295.8	96.61
75%	Vmin	70140.0	295.7	96.32	70180.0	295.7	96.32	70150.0	295.7	96.32	70170.0	295.7	96.31	70170.0	295.7	96.32
100%	Vmin	95200.0	296.1	95.91	95210.0	296.1	95.91	95220.0	296.1	95.91	95230.0	296.1	95.92	95190.0	296.1	95.91
10%	Vnom	9834.0	341.9	93.26	9840.0	341.9	93.26	9834.0	341.9	93.25	9831.0	341.9	93.26	9827.0	341.9	93.23
20%	Vnom	21850.0	341.9	95.75	21853.0	341.9	95.75	21885.0	341.9	95.75	21875.0	341.9	95.75	21885.0	341.9	95.76
30%	Vnom	32318.0	341.8	96.28	32334.0	341.8	96.27	32353.0	341.8	96.27	32350.0	341.8	96.27	32362.0	341.7	96.28
50%	Vnom	45137.0	341.5	96.40	45134.0	341.4	96.41	45142.0	341.5	96.40	45145.0	341.5	96.40	45146.0	341.5	96.41
75%	Vnom	70150.0	341.3	96.14	70150.0	341.3	96.15	70170.0	341.3	96.15	70170.0	341.3	96.15	70190.0	341.3	96.14
100%	Vnom	95100.0	342.0	95.78	95080.0	342.0	95.78	95050.0	342.0	95.78	95070.0	342.0	95.77	95060.0	342.0	95.77
10%	Vmax	9835.0	481.6	91.49	9836.0	481.5	91.50	9849.0	481.5	91.50	9849.0	481.5	91.51	9848.0	481.5	91.51
20%	Vmax	21880.0	481.6	94.77	21871.0	481.6	94.77	21867.0	481.6	94.77	21874.0	481.6	94.77	21876.0	481.6	94.78
30%	Vmax	32375.0	482.0	95.51	32383.0	482.0	95.50	32379.0	482.0	95.50	32362.0	482.0	95.51	32367.0	482.0	95.51
50%	Vmax	45161.0	481.2	95.76	45169.0	481.2	95.75	45163.0	481.2	95.75	45164.0	481.2	95.76	45154.0	481.2	95.76
75%	Vmax	70190.0	481.5	95.59	70180.0	481.5	95.59	70180.0	481.5	95.59	70190.0	481.5	95.58	70180.0	481.5	95.58
100%	Vmax	95090.0	480.8	95.24	95070.0	480.8	95.25	95100.0	480.8	95.24	95100.0	480.8	95.25	95130.0	480.8	95.25

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	9821.0	296.0	93.85	9809.0	296.0	93.82	9810.0	296.0	93.82	9807.0	296.0	93.82	9826.0	296.0	93.84
20%	Vmin	21819.0	295.8	96.086	21814.0	295.8	96.082	21822.0	295.8	96.089	21825.0	295.8	96.089	21822.0	295.8	96.085
30%	Vmin	32381.0	296.0	96.530	32376.0	296.0	96.524	32372.0	296.0	96.525	32374.0	296.0	96.525	32373.0	296.0	96.530
50%	Vmin	45165.0	295.8	96.615	45156.0	295.8	96.610	45136.0	295.8	96.613	45130.0	295.9	96.602	45135.0	295.8	96.609
75%	Vmin	70170.0	295.7	96.310	70180.0	295.7	96.308	70170.0	295.7	96.304	70170.0	295.7	96.304	70170.0	295.7	96.304
100%	Vmin	95200.0	296.1	95.905	95210.0	296.1	95.907	95210.0	296.1	95.904	95240.0	296.1	95.911	95230.0	296.1	95.906
10%	Vnom	9834.0	341.9	93.236	9828.0	341.9	93.238	9829.0	341.9	93.239	9835.0	341.9	93.238	9829.0	341.9	93.232
20%	Vnom	21888.0	341.9	95.759	21894.0	341.9	95.755	21887.0	341.9	95.759	21890.0	341.9	95.760	21880.0	341.9	95.763
30%	Vnom	32361.0	341.7	96.282	32366.0	341.8	96.279	32352.0	341.8	96.278	32359.0	341.8	96.281	32356.0	341.8	96.286
50%	Vnom	45165.0	341.4	96.406	45157.0	341.5	96.408	45149.0	341.5	96.409	45153.0	341.5	96.398	45172.0	341.5	96.396
75%	Vnom	70180.0	341.3	96.146	70190.0	341.3	96.150	70190.0	341.3	96.144	70190.0	341.2	96.145	70180.0	341.3	96.136
100%	Vnom	95050.0	342.0	95.772	95030.0	342.0	95.769	95030.0	342.0	95.782	95080.0	342.0	95.776	95050.0	342.0	95.778
10%	Vmax	9851.0	481.5	91.509	9848.0	481.5	91.513	9845.0	481.5	91.519	9852.0	481.5	91.513	9848.0	481.5	91.516
20%	Vmax	21878.0	481.6	94.775	21886.0	481.6	94.777	21886.0	481.6	94.777	21880.0	481.6	94.775	21872.0	481.6	94.775
30%	Vmax	32361.0	482.0	95.509	32362.0	482.0	95.512	32384.0	482.0	95.506	32381.0	482.0	95.505	32388.0	482.0	95.506
50%	Vmax	45144.0	481.2	95.759	45156.0	481.2	95.760	45163.0	481.1	95.758	45147.0	481.1	95.756	45163.0	481.1	95.748
75%	Vmax	70170.0	481.5	95.588	70200.0	481.5	95.579	70160.0	481.5	95.586	70140.0	481.5	95.586	70150.0	481.6	95.574
100%	Vmax	95120.0	480.8	95.240	95140.0	480.8	95.223	95160.0	480.8	95.222	95160.0	480.8	95.231	95180.0	480.8	95.229