Manufacturer: Advanced Energy Industries

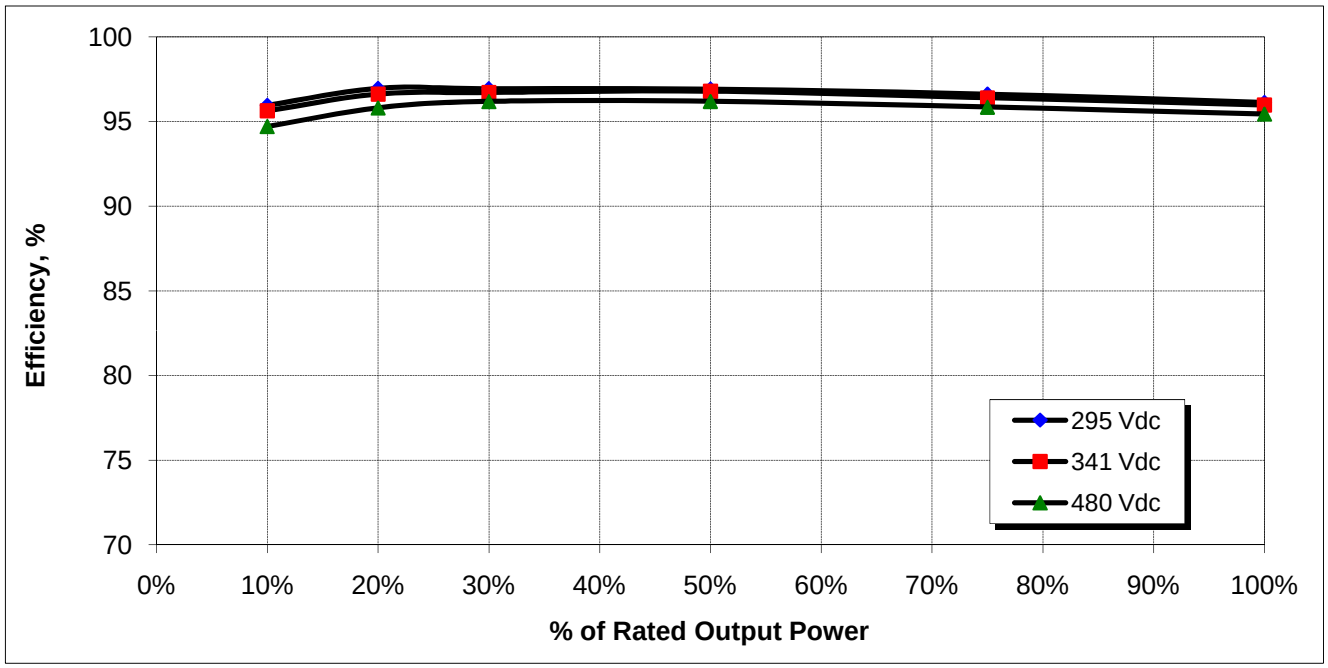
Model #: PVP250kW-480

Rated Maximum Continuous Output Power: 249.50 kW Night Tare Loss: 54.14 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		24.95	49.90	74.85	124.75	187.13	249.50	Wtd
Vmin	295	96.0	97.0	96.9	96.9	96.6	96.1	96.7
Vnom	341	95.6	96.6	96.7	96.8	96.4	96.0	96.5
Vmax	480	94.7	95.8	96.2	96.2	95.9	95.4	95.9

CEC Efficiency = 96.5%



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	24646.0	295.2	95.94	24638.0	295.2	95.96	24634.0	295.2	95.94	24676.0	295.2	95.97	24656.0	295.2	95.96
20%	Vmin	54592.0	295.2	96.96	54609.0	295.2	96.95	54588.0	295.2	96.95	54631.0	295.2	96.96	54628.0	295.2	96.96
30%	Vmin	80814.0	295.2	96.94	80833.0	295.2	96.94	80789.0	295.2	96.94	80791.0	295.2	96.94	80821.0	295.2	96.93
50%	Vmin	112550.0	295.2	96.93	112580.0	295.2	96.93	112580.0	295.1	96.93	112590.0	295.2	96.92	112580.0	295.1	96.91
75%	Vmin	174920.0	295.2	96.62	174940.0	295.2	96.62	174910.0	295.2	96.62	174910.0	295.2	96.62	174890.0	295.2	96.61
100%	Vmin	237470.0	295.2	96.12	237440.0	295.2	96.12	237480.0	295.2	96.12	237450.0	295.2	96.12	237450.0	295.2	96.13
10%	Vnom	24654.0	341.2	95.59	24681.0	341.2	95.61	24654.0	341.2	95.59	24657.0	341.2	95.61	24657.0	341.2	95.67
20%	Vnom	54658.0	341.2	96.60	54678.0	341.2	96.61	54641.0	341.2	96.60	54653.0	341.2	96.60	54662.0	341.2	96.61
30%	Vnom	80762.0	341.1	96.72	80807.0	341.1	96.71	80805.0	341.2	96.71	80825.0	341.2	96.71	80825.0	341.2	96.72
50%	Vnom	112580.0	341.1	96.80	112600.0	341.1	96.80	112600.0	341.2	96.79	112630.0	341.2	96.78	112650.0	341.2	96.79
75%	Vnom	174900.0	341.2	96.38	174840.0	341.1	96.40	174800.0	341.1	96.41	174860.0	341.1	96.41	174900.0	341.1	96.41
100%	Vnom	237300.0	341.2	95.93	237380.0	341.2	95.94	237190.0	341.2	95.97	237270.0	341.2	95.97	237300.0	341.2	95.97
10%	Vmax	24596.0	480.2	94.69	24574.0	480.2	94.72	24578.0	480.2	94.67	24562.0	480.2	94.62	24554.0	480.2	94.68
20%	Vmax	54672.0	480.2	95.78	54675.0	480.1	95.79	54670.0	480.1	95.79	54669.0	480.1	95.79	54661.0	480.1	95.80
30%	Vmax	80839.0	480.1	96.18	80826.0	480.1	96.17	80821.0	480.1	96.18	80828.0	480.1	96.18	80823.0	480.1	96.19
50%	Vmax	112560.0	480.2	96.18	112550.0	480.2	96.18	112570.0	480.2	96.19	112530.0	480.2	96.18	112540.0	480.2	96.19
75%	Vmax	174820.0	480.1	95.84	174880.0	480.1	95.84	174920.0	480.1	95.84	174890.0	480.1	95.85	174880.0	480.1	95.86
100%	Vmax	237390.0	480.2	95.46	237360.0	480.2	95.46	237390.0	480.2	95.46	237570.0	480.2	95.45	237580.0	480.2	95.44

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	24669.0	295.2	95.96	24659.0	295.2	95.92	24673.0	295.2	95.95	24657.0	295.2	95.99	24649.0	295.2	96.00
20%	Vmin	54627.0	295.2	96.950	54645.0	295.2	96.953	54678.0	295.2	96.951	54710.0	295.2	96.981	54725.0	295.2	96.973
30%	Vmin	80802.0	295.2	96.926	80797.0	295.2	96.939	80808.0	295.2	96.928	80770.0	295.2	96.922	80754.0	295.2	96.927
50%	Vmin	112580.0	295.1	96.909	112580.0	295.1	96.901	112580.0	295.1	96.903	112570.0	295.2	96.907	112550.0	295.2	96.898
75%	Vmin	174950.0	295.2	96.618	175010.0	295.2	96.613	174930.0	295.2	96.611	174940.0	295.2	96.617	174950.0	295.2	96.612
100%	Vmin	237440.0	295.2	96.135	237500.0	295.2	96.127	237520.0	295.2	96.132	237510.0	295.2	96.131	237520.0	295.2	96.132
10%	Vnom	24672.0	341.2	95.639	24643.0	341.2	95.656	24656.0	341.2	95.652	24659.0	341.2	95.663	24661.0	341.2	95.639
20%	Vnom	54651.0	341.2	96.631	54642.0	341.2	96.622	54645.0	341.2	96.636	54633.0	341.2	96.641	54637.0	341.1	96.644
30%	Vnom	80835.0	341.2	96.711	80816.0	341.2	96.708	80828.0	341.2	96.715	80845.0	341.2	96.702	80856.0	341.2	96.704
50%	Vnom	112610.0	341.2	96.786	112680.0	341.2	96.777	112630.0	341.2	96.776	112650.0	341.2	96.776	112650.0	341.2	96.779
75%	Vnom	174940.0	341.1	96.405	174960.0	341.1	96.394	175040.0	341.1	96.395	174980.0	341.1	96.393	174970.0	341.1	96.387
100%	Vnom	237250.0	341.2	95.984	237260.0	341.2	95.989	237200.0	341.1	96.001	237200.0	341.1	96.001	237200.0	341.1	95.997
10%	Vmax	24530.0	480.2	94.751	24536.0	480.2	94.706	24575.0	480.2	94.731	24584.0	480.2	94.725	24587.0	480.2	94.751
20%	Vmax	54662.0	480.1	95.791	54664.0	480.1	95.801	54642.0	480.1	95.828	54650.0	480.1	95.837	54654.0	480.1	95.823
30%	Vmax	80810.0	480.1	96.184	80787.0	480.1	96.184	80823.0	480.1	96.177	80805.0	480.1	96.190	80824.0	480.1	96.193
50%	Vmax	112580.0	480.2	96.197	112570.0	480.2	96.204	112570.0	480.2	96.195	112580.0	480.2	96.198	112620.0	480.1	96.194
75%	Vmax	174910.0	480.1	95.849	174870.0	480.1	95.850	174870.0	480.1	95.851	174900.0	480.1	95.860	174920.0	480.1	95.862
100%	Vmax	237510.0	480.2	95.432	237500.0	480.2	95.431	237540.0	480.2	95.408	237450.0	480.2	95.420	237480.0	480.2	95.422