Manufacturer: Petra Systems, Product Type Sunwave 2.0, 120 Vac / 60 Hz.

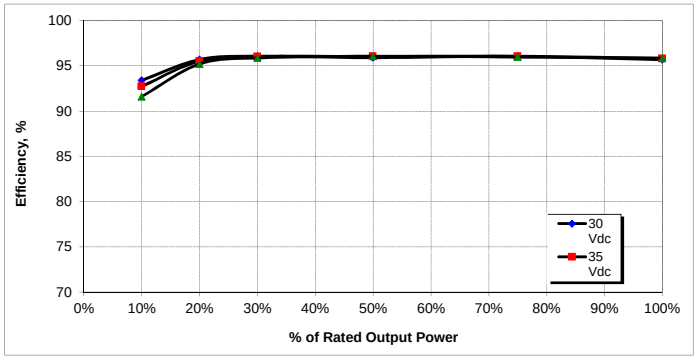
Model #: 103.10400.0001

Rated Maximum Continuous Output Power: 0.241 kW Night Tare Loss: -0.05 W

Vmin: 30 Vdc Vnom: 35 Vdc Vmax: 40 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.02	0.05	0.07	0.12	0.18	0.24	Wtd
Vmin	30	93.39	95.69	96.06	95.90	96.05	95.68	95.88
Vnom	35	92.73	95.51	96.01	96.04	96.05	95.81	95.87
Vmax	40	91.60	95.21	95.86	96.06	95.97	95.84	95.76

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	0.0235	29.957	93.402	0.0234	29.964	93.398	0.0234	29.954	93.388	0.0234	29.958	93.385	0.0235	29.968	93.393
20%	Vmin	0.0500	30.061	95.688	0.0499	30.058	95.684	0.0499	30.056	95.688	0.0500	30.07	95.690	0.0500	30.065	95.682
30%	Vmin	0.0767	30.292	96.055	0.0767	30.306	96.058	0.0767	30.309	96.061	0.0767	30.318	96.064	0.0766	30.277	96.055
50%	Vmin	0.1106	30.321	95.906	0.1103	30.311	95.901	0.1103	30.315	95.901	0.1102	30.307	95.903	0.1104	30.32	95.901
75%	Vmin	0.1704	30.382	96.055	0.1705	30.385	96.055	0.1706	30.387	96.054	0.1707	30.415	96.055	0.1708	30.411	96.055
100%	Vmin	0.2310	30.407	95.690	0.2307	30.352	95.683	0.2306	30.358	95.669	0.2310	30.449	95.673	0.2304	30.343	95.673
10%	Vnom	0.0233	34.664	92.731	0.0233	34.68	92.724	0.0233	34.691	92.735	0.0233	34.68	92.737	0.0234	34.688	92.739
20%	Vnom	0.0502	34.8	95.510	0.0502	34.801	95.507	0.0502	34.79	95.510	0.0502	34.777	95.504	0.0501	34.79	95.515
30%	Vnom	0.0744	35.251	96.010	0.0743	35.26	96.008	0.0744	35.267	96.013	0.0744	35.269	96.011	0.0744	35.28	96.017
50%	Vnom	0.1095	34.989	96.044	0.1095	34.993	96.044	0.1096	34.998	96.046	0.1096	35.019	96.042	0.1094	34.999	96.037
75%	Vnom	0.1701	35.113	96.045	0.1700	35.122	96.046	0.1701	35.127	96.044	0.1700	35.119	96.044	0.1702	35.154	96.047
100%	Vnom	0.2310	35.142	95.818	0.2309	35.162	95.814	0.2309	35.155	95.812	0.2309	35.135	95.814	0.2308	35.145	95.815
10%	Vmax	0.0230	40.599	91.594	0.0230	40.6	91.597	0.0230	40.59	91.617	0.0230	40.587	91.587	0.0231	40.593	91.590
20%	Vmax	0.0501	39.767	95.206	0.0501	39.781	95.207	0.0502	39.778	95.212	0.0502	39.783	95.212	0.0501	39.784	95.204
30%	Vmax	0.0744	40.386	95.864	0.0744	40.396	95.865	0.0744	40.382	95.862	0.0744	40.395	95.864	0.0745	40.394	95.866
50%	Vmax	0.1102	39.976	96.060	0.1101	39.986	96.055	0.1101	39.994	96.060	0.1101	39.995	96.059	0.1101	39.997	96.055
75%	Vmax	0.1850	40.15	95.974	0.1850	40.139	95.974	0.1850	40.14	95.977	0.1850	40.142	95.976	0.1849	40.143	95.970
100%	Vmax	0.2306	40.158	95.837	0.2305	40.144	95.835	0.2308	40.163	95.837	0.2307	40.15	95.840	0.2309	40.158	95.841

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															
20%	Vmin															
30%	Vmin															
50%	Vmin															
75%	Vmin															
100%	Vmin															
10%	Vnom															
20%	Vnom															
30%	Vnom															
50%	Vnom															
75%	Vnom															
100%	Vnom															
10%	Vmax															
20%	Vmax															
30%	Vmax															
50%	Vmax															
75%	Vmax															
100%	Vmax															