Manufacturer: Power-One

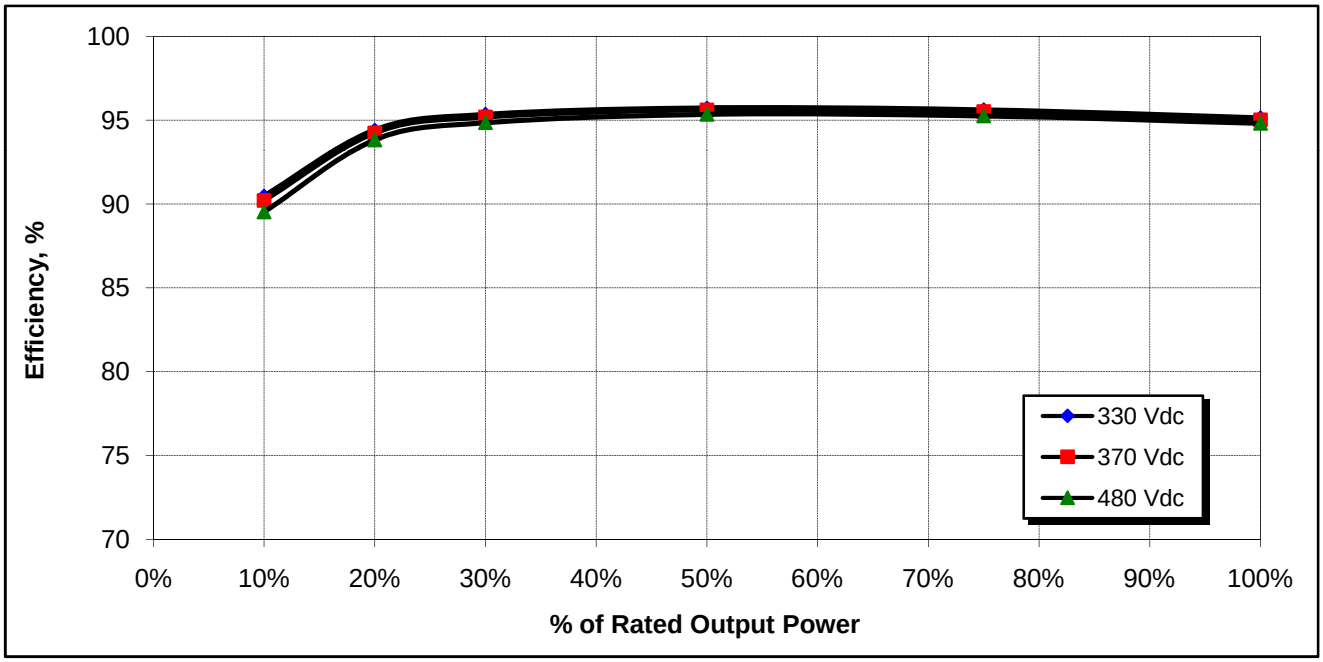
Model #: PVI-CENTRAL-50-US (480Vac)

Rated Maximum Continuous Output Power @25°C: 50 kW Night Tare Loss: 41 W
Rated Maximum Continuous Output Power @40°C: 50 kW Night Tare Loss: 41 W

Vmin: 330 Vdc Vnom: 370 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		5.00	10.00	15.00	25.00	37.50	50.00	Wtd
Vmin	330	90.5	94.4	95.3	95.7	95.6	95.1	95.3
Vnom	370	90.2	94.2	95.2	95.6	95.5	95.0	95.2
Vmax	480	89.5	93.8	94.9	95.3	95.3	94.8	94.9

CEC Efficiency = 95.0%



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	4926.8	333.18	90.479	4926	333.28	90.461	4927	333.66	90.525	4923	333.76	90.442	4929	333.11	90.528
20%	Vmin	10928	332.59	94.419	10927	333	94.427	10928	333.25	94.425	10928	333.19	94.416	10928	333.18	94.383
30%	Vmin	16197	332.62	95.337	16196	333.14	95.340	16195	333.18	95.344	16196	332.88	95.344	16193	332.78	95.346
50%	Vmin	24939	333.8	95.728	24938	334.13	95.745	24940	333.92	95.730	24942	333.75	95.765	24939	334.1	95.740
75%	Vmin	35081	330.99	95.588	35083	331.21	95.612	35079	331.15	95.634	35078	331.41	95.639	35077	331.74	95.616
100%	Vmin	47602	332.44	95.122	47602	332.49	95.127	47604	332.34	95.130	47603	331.61	95.123	47605	331.72	95.154
10%	Vnom	4925.3	372.9	90.161	4929	373.07	90.332	4927	372.98	90.237	4925	373.06	90.157	4924	372.92	90.140
20%	Vnom	10927	370.92	94.230	10925	370.81	94.223	10924	371.25	94.229	10927	371.16	94.287	10924	371.7	94.214
30%	Vnom	16198	371.62	95.222	16196	371.85	95.198	16195	371.51	95.186	16192	371.43	95.175	16195	371.57	95.173
50%	Vnom	24975	370.42	95.610	24973	370.28	95.606	24975	370.24	95.617	24974	370.53	95.629	24978	370.76	95.638
75%	Vnom	35110	371.48	95.525	35114	371.61	95.493	35117	371.27	95.512	35111	371.28	95.511	35113	371.76	95.515
100%	Vnom	47592	373.71	95.021	60.01	373.67	95.034	47592	373.99	95.030	47591	373.84	95.012	47593	373.69	95.009
10%	Vmax	4935.9	480.03	89.527	4932	480.12	89.452	4937	480.03	89.575	4938	479.63	89.541	4938	479.9	89.591
20%	Vmax	10909	477.99	93.793	10912	478.23	93.819	10911	478.2	93.819	10911	478.21	93.816	10914	478.46	93.860
30%	Vmax	16191	478.9	94.820	16188	479.19	94.833	16194	479.15	94.889	16188	479.05	94.847	16194	479.3	94.848
50%	Vmax	25135	482.35	95.353	25131	482.51	95.338	25133	482.72	95.335	25132	482.35	95.341	25131	482.07	95.378
75%	Vmax	35138	479.11	95.255	35138	478.45	95.246	35139	478.92	95.246	35141	479.04	95.269	35139	479.3	95.262
100%	Vmax	47589	478.3	94.804	47591	478.69	94.815	47587	477.82	94.843	47587	478.76	94.815	47589	479.02	94.812

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	4925.2	333.14	90.449	4926	333	90.506									
20%	Vmin	10931	332.85	94.420	10929	332.83	94.423									
30%	Vmin	16198	332.72	95.346	16194	332.82	95.340									
50%	Vmin	24937	333.93	95.736	24937	333.87	95.708									
75%	Vmin	35076	331.66	95.576	35075	331.48	95.602									
100%	Vmin	47600	332.53	95.131	47596	332.77	95.117									
10%	Vnom	4925.4	373	90.248	4928	373.12	90.240									
20%	Vnom	10925	371.86	94.234	10926	371.92	94.240									
30%	Vnom	16197	371.72	95.197	16194	371.56	95.176									
50%	Vnom	24977	370.58	95.651	24978	370.25	95.594									
75%	Vnom	35115	371.62	95.523	35117	371.66	95.512									
100%	Vnom	47600	373.29	95.067	60.01	374.01	95.032									
10%	Vmax	4933.8	480.41	89.498	4936	480.25	89.517									
20%	Vmax	10910	478.71	93.807	10910	478.06	93.816									
30%	Vmax	16194	479.47	94.860	16194	479.55	94.882									
50%	Vmax	25132	482.22	95.346	25133	481.96	95.357									
75%	Vmax	35140	479.21	95.246	35144	478.86	95.246									
100%	Vmax	47584	478.79	94.786	47584	478.66	94.799									