Manufacturer: Power-One

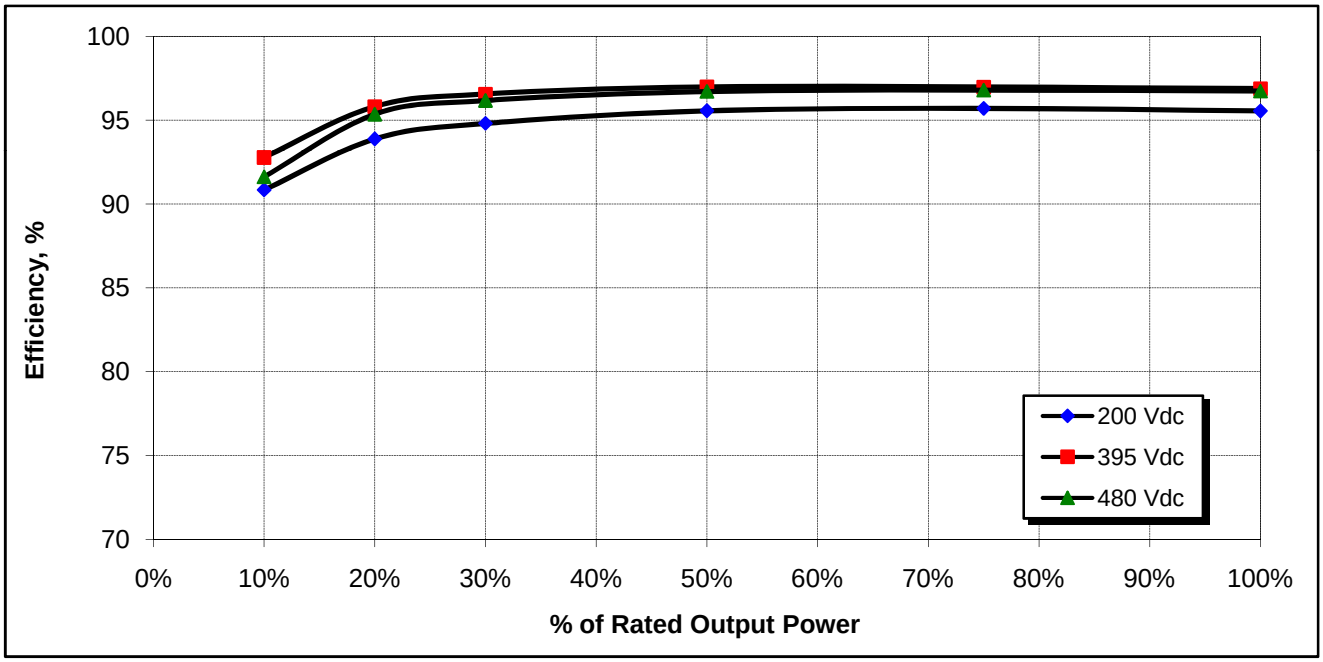
Model #: PVI-4.2-OUTD-x-US-y (277Vac)

Rated Maximum Continuous Output Power @25°C: 4.2 kW Night Tare Loss: 0.2 W
Rated Maximum Continuous Output Power @40°C: 4.2 kW Night Tare Loss: 0.2 W

Vmin: 200 Vdc Vnom: 395 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.42	0.84	1.26	2.10	3.15	4.20	Wtd
Vmin	200	90.8	93.9	94.8	95.6	95.7	95.6	95.3
Vnom	395	92.8	95.8	96.6	97.0	97.0	96.9	96.7
Vmax	480	91.6	95.4	96.2	96.7	96.8	96.7	96.4

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	417.37	200.05	90.862	417.3	200.05	90.842	417.2	200.06	90.855	417	200.05	90.835	417	200.06	90.842
20%	Vmin	921.07	199.69	93.892	922	199.68	93.890	921.4	199.67	93.876	920.9	199.66	93.882	921.3	199.66	93.877
30%	Vmin	1361	200.3	94.802	1362	200.29	94.814	1362	200.28	94.816	1362	200.29	94.816	1362	200.29	94.797
50%	Vmin	2302.4	200.21	95.568	2302	200.21	95.565	2303	200.2	95.566	2302	200.21	95.566	2301	200.22	95.558
75%	Vmin	3044.8	200.46	95.713	3044	200.46	95.709	3044	200.46	95.706	3044	200.46	95.705	3043	200.46	95.700
100%	Vmin	3999.8	200.66	95.559	3997	200.66	95.551	3997	200.66	95.555	4000	200.66	95.552	3998	200.66	95.549
10%	Vnom	418.47	395.29	92.769	419.5	395.26	92.796	417.9	395.26	92.778	418.6	395.25	92.783	419.2	395.25	92.781
20%	Vnom	921	395.37	95.807	921.2	395.34	95.806	918.9	395.33	95.807	919	395.33	95.805	919.5	395.32	95.801
30%	Vnom	1363.3	395.44	96.565	1357	395.43	96.545	1361	395.41	96.558	1361	395.41	96.566	1361	395.4	96.534
50%	Vnom	2299	395.51	96.989	2299	395.5	96.986	2299	395.5	96.991	2299	395.51	96.987	2298	395.51	96.986
75%	Vnom	2945.9	395.42	96.972	2946	395.42	96.975	2947	395.42	96.970	2947	395.41	96.970	2947	395.41	96.969
100%	Vnom	4003.1	395.48	96.883	4004	395.48	96.879	4003	395.47	96.883	4004	395.47	96.882	4004	395.47	96.882
10%	Vmax	418.44	479.73	91.644	416.9	479.74	91.632	415.6	479.75	91.609	418	479.76	91.649	417.5	479.77	91.650
20%	Vmax	920.81	479.95	95.359	921.1	479.97	95.373	919.5	479.99	95.353	918.8	480	95.359	918.4	480	95.360
30%	Vmax	1361.2	479.89	96.188	1361	479.89	96.180	1361	479.89	96.177	1361	479.89	96.183	1361	479.89	96.182
50%	Vmax	2297.9	479.92	96.724	2298	479.92	96.722	2298	479.91	96.724	2298	479.92	96.723	2298	479.92	96.727
75%	Vmax	3353.6	479.92	96.799	3350	479.91	96.795	3348	479.9	96.802	3349	479.91	96.800	3350	479.9	96.800
100%	Vmax	3997.7	479.87	96.746	3997	479.87	96.749	3996	479.88	96.740	3994	479.89	96.741	3994	479.89	96.742

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	416.91	200.05	90.830	416.9	200.06	90.838									
20%	Vmin	921.5	199.65	93.876	921.8	199.65	93.877									
30%	Vmin	1363	200.28	94.803	1363	200.28	94.804									
50%	Vmin	2302	200.21	95.558	2306	200.22	95.557									
75%	Vmin	3043	200.46	95.697	3043	200.46	95.695									
100%	Vmin	3996.4	200.67	95.542	3996	200.67	95.542									
10%	Vnom	419.33	395.25	92.798	418.2	395.24	92.770									
20%	Vnom	919.85	395.31	95.808	920.3	395.31	95.813									
30%	Vnom	1361.7	395.4	96.559	1362	395.4	96.565									
50%	Vnom	2297.5	395.51	96.989	2297	395.52	96.991									
75%	Vnom	2947.7	395.41	96.971	2948	395.4	96.976									
100%	Vnom	4002.7	395.47	96.884	4003	395.47	96.883									
10%	Vmax	417.17	479.77	91.631	416.1	479.78	91.621									
20%	Vmax	917.95	480	95.367	917.1	480	95.356									
30%	Vmax	1361	479.89	96.189	1361	479.89	96.187									
50%	Vmax	2299	479.92	96.717	2300	479.91	96.724									
75%	Vmax	3350.8	479.9	96.800	3352	479.89	96.801									
100%	Vmax	3993.7	479.89	96.743	3993	479.9	96.742									