Manufacturer: MAGNETEK Uncommon Power

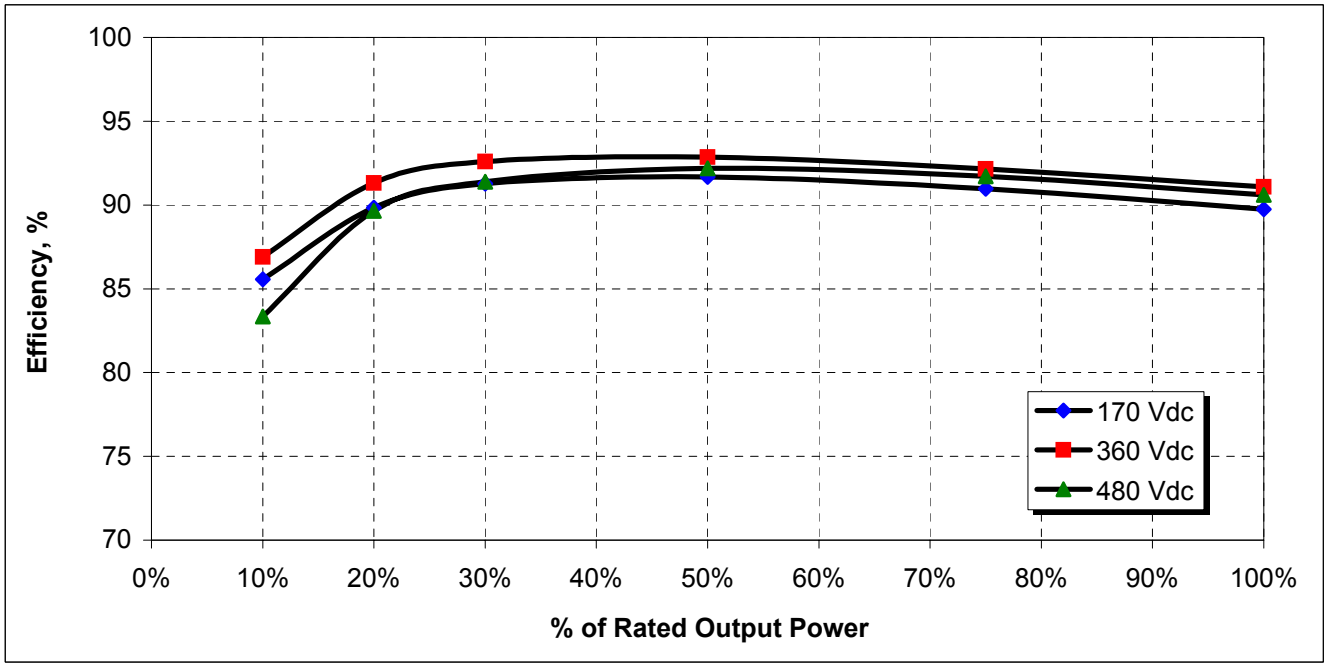
Model #: PVI-3000-I-OUTD-US

Rated Maximum Continuous Output Power @25°C: 3.000 kW Night Tare Loss: 0.40 W
Rated Maximum Continuous Output Power @40°C: 2.516 kW Night Tare Loss: 0.40 W

Vmin: 170 Vdc Vnom: 360 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		0.30	0.60	0.90	1.50	2.25	3.00	Wtd
Vmin	170	85.6	89.8	91.3	91.7	91.0	89.7	90.8
Vnom	360	86.9	91.3	92.6	92.9	92.1	91.1	92.0
Vmax	480	83.3	89.6	91.4	92.2	91.7	90.6	91.3

CEC Efficiency = 92%



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	300	170.13	85.542	300	170.17	85.551	300	170.18	85.589	300	170.18	85.589	300	170.2	85.561
20%	Vmin	600.167	171.65	89.787	600.67	171.63	89.844	600.5	171.65	89.826	600.33	171.62	89.823	600.67	171.62	89.849
30%	Vmin	908.333	169.27	91.299	908	169.27	91.270	908.17	169.25	91.267	908.17	169.13	91.276	908	169.25	91.252
50%	Vmin	1519.67	168	91.685	1519.3	168.03	91.664	1518.8	167.97	91.671	1519	168.03	91.681	1518.8	167.95	91.671
75%	Vmin	2240.83	167.45	90.968	2240.5	167.37	90.973	2240.5	167.37	90.967	2240.3	167.23	90.978	2240.7	167.27	90.992
100%	Vmin	2943.83	167.82	89.783	2940.5	167.72	89.741	2939.2	167.72	89.746	2938.3	167.65	89.738	2937.2	167.33	89.735
10%	Vnom	300	359.58	86.842	300	359.6	86.890	300	359.6	86.863	300	359.6	86.974	300	359.6	86.891
20%	Vnom	603.333	356.88	91.335	602	356.02	91.316	602.67	357.13	91.238	602.83	356.03	91.322	603.5	356.68	91.349
30%	Vnom	896.833	358	92.664	898.67	359.08	92.646	895.67	357.57	92.624	889.33	355.15	92.542	894.67	357.2	92.583
50%	Vnom	1500.17	358.55	92.813	1491	356.6	92.820	1493.5	356.72	92.859	1512.3	361.57	92.914	1485	354.65	92.888
75%	Vnom	2239.17	357.47	92.128	2244.2	358.22	92.169	2249	359.17	92.141	2248.5	359.28	92.133	2220.8	353.85	92.164
100%	Vnom	2974.17	360.22	91.078	2974	360.25	91.078	2974	360.27	91.082	2974	360.27	91.092	2974	360.27	91.096
10%	Vmax	302	526.43	82.705	302	526.4	82.703	302	526.45	82.708	302	526.47	82.670	302	526.43	82.670
20%	Vmax	598.333	523.1	89.131	598.5	523.1	89.161	598.83	523.1	89.163	598.67	523.1	89.097	598.5	523.1	89.153
30%	Vmax	886.333	513.05	90.816	886.67	515.55	90.756	892.33	514.38	91.181	889.33	514.03	91.277	893.83	518.23	90.976
50%	Vmax	1511.83	515.98	91.803	1521.3	517.82	91.803	1524.5	519.4	91.819	1521.3	517.73	91.730	1517.8	516.75	91.787
75%	Vmax	2228.67	514.37	91.289	2197.3	505.68	91.429	2237.5	516.18	91.346	2238.5	515.8	91.386	2245.3	518.03	91.311
100%	Vmax	3037.83	521.55	90.006	3038.2	521.53	89.989	3038.2	521.5	89.971	3039	521.5	89.964	3039.3	521.5	89.965

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	300	170.2	85.551	300	170.2	85.499									
20%	Vmin	600.333	171.63	89.852	601	171.6	89.898									
30%	Vmin	908	169.18	91.255	908.17	169.23	91.275									
50%	Vmin	1519	167.98	91.700	1519	167.9	91.690									
75%	Vmin	2240.67	167.27	90.998	2239.7	167.27	90.957									
100%	Vmin	2936.17	167.45	89.718	2935	167.43	89.705									
10%	Vnom	300.333	359.6	86.971	300.33	359.58	86.915									
20%	Vnom	602.833	356.73	91.247	604.67	357.33	91.387									
30%	Vnom	896.667	357.95	92.567	898.5	359.03	92.565									
50%	Vnom	1501.33	358.75	92.894	1503.2	359.05	92.874									
75%	Vnom	2246	358.33	92.144	2249.8	358.63	92.162									
100%	Vnom	2973	360.3	91.076	2973	360.3	91.090									
10%	Vmax	302	526.47	82.670	302	526.42	82.680									
20%	Vmax	598.5	523.1	89.067	598.83	523.07	89.107									
30%	Vmax	890.333	516.73	91.021	891.17	518.65	91.013									
50%	Vmax	1513	515.53	91.893	1520	517.85	91.917									
75%	Vmax	2241	517.85	91.191	2235.8	515.55	91.352									
100%	Vmax	3039.5	521.5	89.961	3039.7	521.5	89.957									