Manufacturer: Green Power Technologies SL

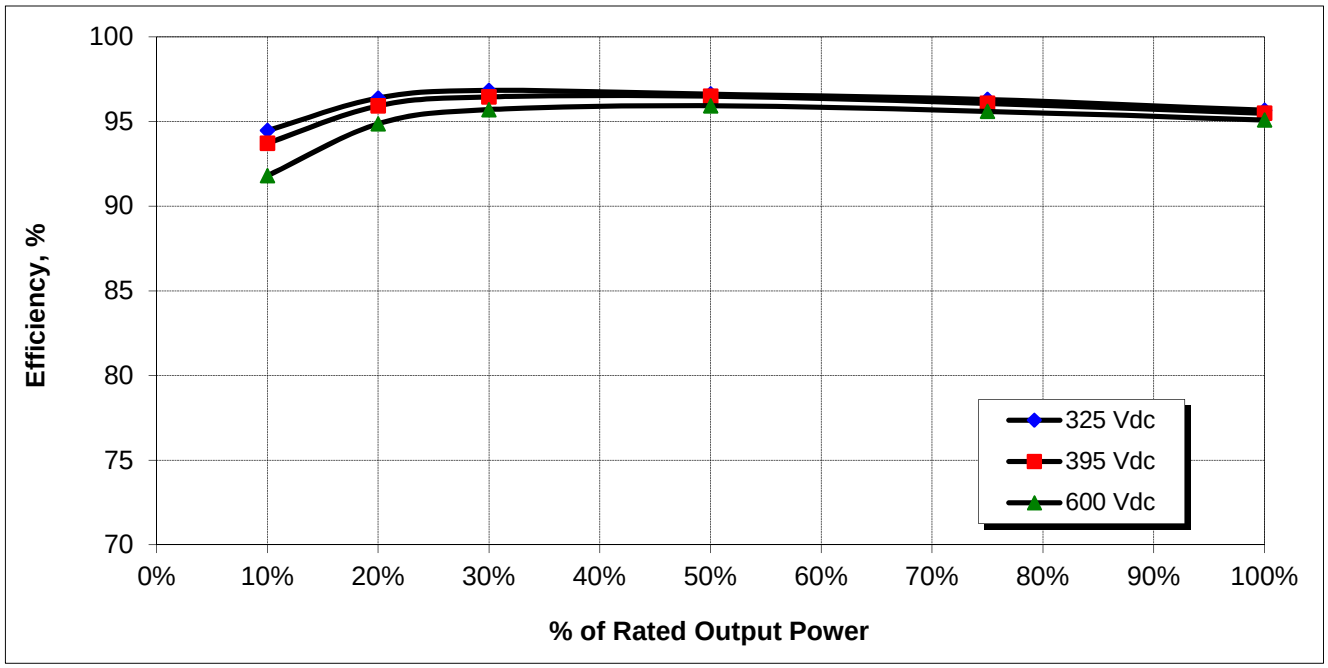
Model #: PV500U + MVT

Rated Maximum Continuous Output Power: 500 kW Night Tare Loss: 140.4 W

Vmin: 325 Vdc Vnom: 395 Vdc Vmax: 600 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50	100	150	250	375	500	Wtd
Vmin	325	94.5	96.4	96.8	96.6	96.3	95.7	96.3
Vnom	395	93.7	95.9	96.5	96.5	96.1	95.5	96.1
Vmax	600	91.8	94.9	95.7	95.9	95.6	95.1	95.5

CEC Efficiency = 96.0%



Manufacturer: Green Power Technologies SL

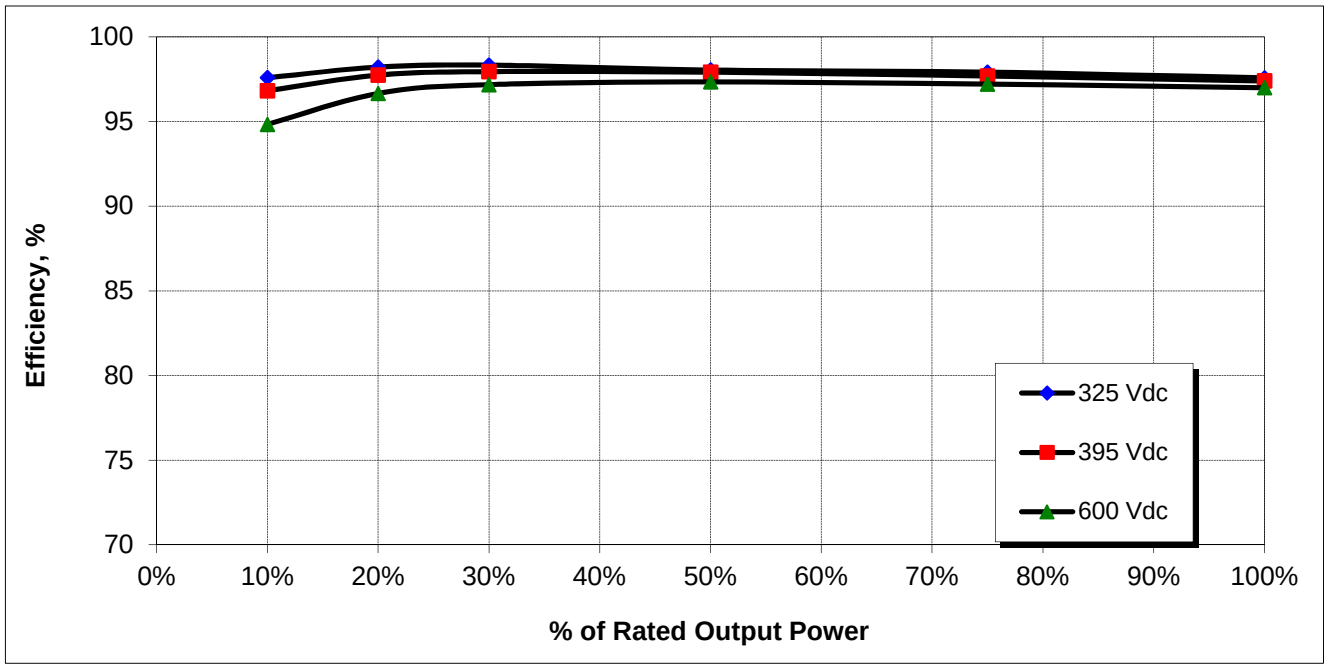
Model #: PV500U

Rated Maximum Continuous Output Power: 500 kW Night Tare Loss: 140.4 W

Vmin: 325 Vdc Vnom: 395 Vdc Vmax: 600 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	325	97.6	98.2	98.3	98.0	97.9	97.6	98.0
Vnom	395	96.8	97.7	97.9	97.9	97.7	97.4	97.7
Vmax	600	94.8	96.7	97.2	97.3	97.2	97.0	97.1

Inverter Efficiency w/o Transformer= 97.5%



Transformer Efficiency

	Power Level (%; kW)						
	10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)	50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	96.8	98.14	98.48	98.55	98.35	98.04	98.3
Vnom	96.8	98.14	98.48	98.55	98.35	98.04	98.3
Vmax	96.8	98.14	98.48	98.55	98.35	98.04	98.3

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)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	50.459	326.51	97.582	50.4679	326.48	97.581	50.4804	326.54	97.584	50.4681	326.5	97.585	50.4779	326.46	97.585
20%	Vmin	100.51	326.39	98.206	100.513	326.35	98.206	100.514	326.31	98.210	100.537	326.25	98.212	100.568	326.25	98.215
30%	Vmin	150.17	325.94	98.320	150.186	325.94	98.323	50.212	325.96	98.328	150.215	325.94	98.332	150.22	325.96	98.335
50%	Vmin	250.05	324.82	98.179	250.051	324.83	97.180	250.028	324.84	98.181	250.047	324.84	98.182	250.044	324.85	98.182
75%	Vmin	374.06	322.71	97.914	374.061	322.7	97.916	374.026	322.7	97.916	374.027	322.69	97.916	373.999	322.71	97.916
100%	Vmin	499.49	322.21	97.578	499.511	322.23	97.578	499.53	322.22	97.577	499.53	322.24	97.576	499.498	322.22	97.574
10%	Vnom	50.336	396.59	96.818	50.3332	396.57	96.818	50.3315	396.56	96.820	50.3341	396.57	96.820	50.3406	396.59	96.820
20%	Vnom	100.14	396.11	97.740	100.138	396.11	97.742	100.137	396.09	97.744	100.142	396.09	97.744	100.145	396.08	97.744
30%	Vnom	150.35	395.84	97.938	150.338	395.82	97.940	150.338	395.8	97.942	150.332	395.77	97.944	150.324	395.76	97.946
50%	Vnom	250.2	395.57	97.910	250.19	395.56	97.911	250.184	395.563	97.913	250.165	395.54	97.915	250.153	395.53	97.916
75%	Vnom	375.46	395.15	97.686	375.432	395.13	97.687	375.415	395.14	97.688	375.401	395.15	97.689	375.386	395.16	97.689
100%	Vnom	500.19	394.6	97.398	500.182	394.6	97.397	500.123	394.56	97.396	500.07	394.56	97.394	500.026	394.57	97.392
10%	Vmax	50.399	601.34	94.924	50.3992	601.34	94.923	50.4063	601.35	94.924	50.4027	601.31	94.925	50.4072	601.3	94.928
20%	Vmax	100.25	601	96.659	100.251	601.02	96.658	100.252	601.01	96.659	100.255	600.99	96.661	100.258	600.97	96.660
30%	Vmax	150.52	600.7	97.350	150.532	600.72	97.149	150.544	600.76	97.152	150.547	600.76	97.153	150.547	600.75	97.153
50%	Vmax	250.49	600.36	97.240	250.487	600.35	97.353	250.487	600.34	97.354	250.489	600.34	97.357	250.492	600.33	97.359
75%	Vmax	375.09	599.99	97.000	375.077	599.93	97.241	375.056	599.93	97.241	375.028	599.91	97.241	374.997	599.87	97.241
100%	Vmax	500.08	599.39	97.000	500.045	599.4	96.997	499.992	599.37	96.995	499.953	599.37	96.994	499.916	599.38	96.994

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)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)	(kW)	(Vdc)	(%)
10%	Vmin	50.483	326.49	97.588	50.478	326.5	97.587									
20%	Vmin	100.58	326.22	98.217	100.611	326.24	98.220									
30%	Vmin	150.24	325.97	98.339	150.274	325.97	98.345									
50%	Vmin	250.03	324.86	98.183	250.016	324.84	98.183									
75%	Vmin	373.98	322.71	97.915	373.96	322.76	97.915									
100%	Vmin	499.46	322.2	97.573	499.421	322.22	97.571									
10%	Vnom	50.344	396.58	96.820	50.3525	396.59	96.819									
20%	Vnom	100.15	396.08	97.745	100.153	396.07	97.744									
30%	Vnom	150.31	395.72	97.947	150.313	395.73	97.949									
50%	Vnom	250.14	395.52	97.917	250.13	395.51	97.917									
75%	Vnom	375.36	395.16	97.689	375.325	395.14	97.690									
100%	Vnom	499.98	394.55	97.391	499.918	394.51	97.390									
10%	Vmax	50.413	601.32	94.928	50.4269	601.36	94.291									
20%	Vmax	100.26	600.96	96.661	100.264	600.95	96.661									
30%	Vmax	150.56	600.76	97.154	150.556	600.73	97.154									
50%	Vmax	250.5	600.35	97.363	250.506	600.36	97.363									
75%	Vmax	374.96	599.83	97.241	374.94	599.82	97.242									
100%	Vmax	499.88	599.39	96.994	499.852	599.39	96.991									