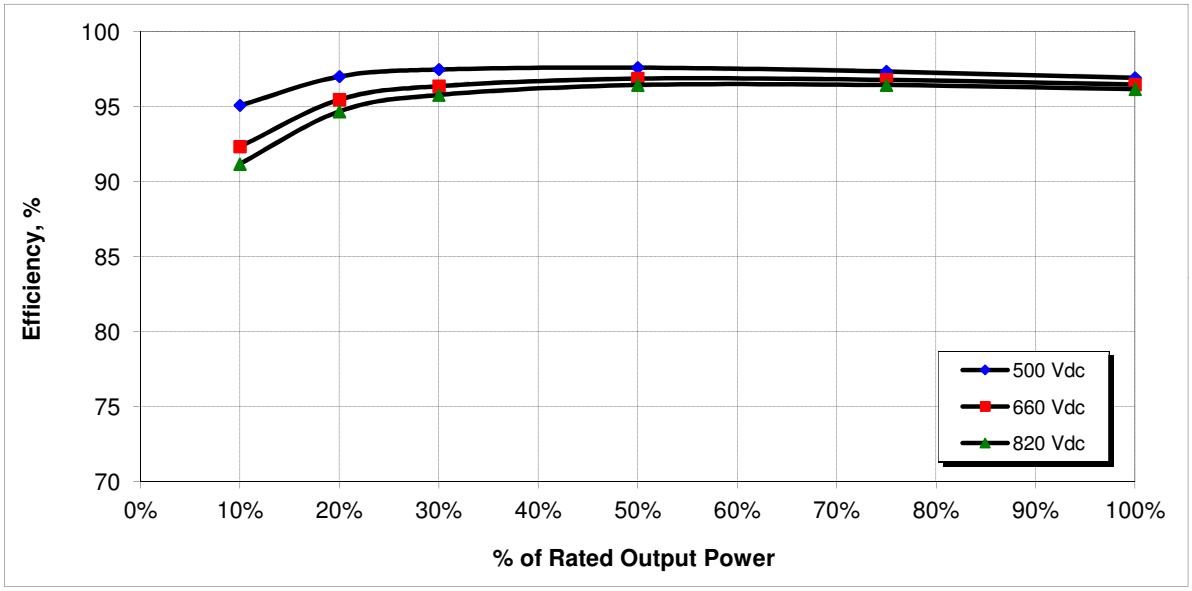
Manufacturer: AEG Power Solutions
Model #: PV.500-UL

Rated Maximum Continuous Output Power: 510.00 kW Night Tare Loss: 123 W

Vmin: 500 Vdc Vnom: 660 Vdc Vmax: 820 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		51.00	102.00	153.00	255.00	382.50	510.00	Wtd
Vmin	500	95.1	97.0	97.5	97.6	97.3	96.9	97.3
Vnom	660	92.3	95.5	96.4	96.9	96.8	96.5	96.5
Vmax	820	91.2	94.7	95.8	96.4	96.4	96.2	96.0

CEC Efficiency = 96.5%



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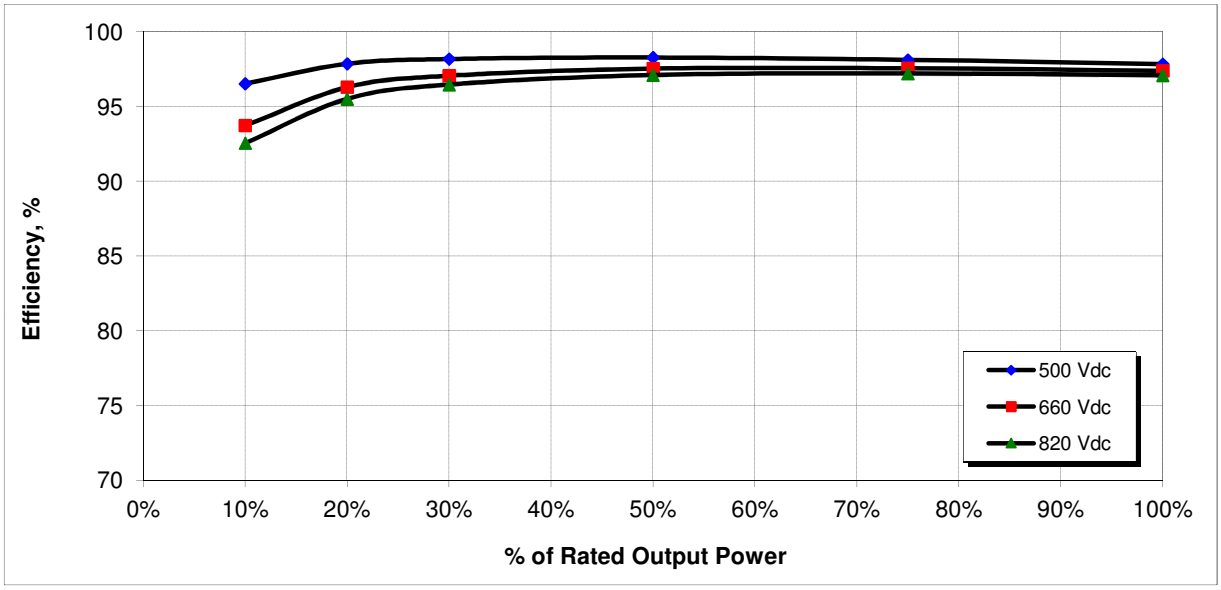
Model #: PV.500-UL

Rated Maximum Continuous Output Power: 510.00 kW Night Tare Loss: 123.00 W

Vmin: 500 Vdc Vnom: 660 Vdc Vmax: 820 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		51.00	102.00	153.00	255.00	382.50	510.00	Wtd
Vmin	500	96.5	97.9	98.2	98.3	98.1	97.8	98.1
Vnom	660	93.7	96.3	97.1	97.5	97.6	97.4	97.3
Vmax	820	92.5	95.5	96.5	97.1	97.2	97.1	96.8

Inverter Efficiency w/o Transformer = 97.5%



MIN. TRANSFORMER EFFICIENCY

	Power Level (%; kW)						
	10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)	100	200	300	500	750	1000	Wtd
Vmin	98.5	99.1	99.3	99.3	99.2	99.0	99.2
Vnom	98.5	99.1	99.3	99.3	99.2	99.0	99.2
Vmax	98.5	99.1	99.3	99.3	99.2	99.0	99.2

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	51.459	501.6	96.520	51.43	501.28	96.530	51.47	501.67	96.510	51.53	502.18	96.520	51.63	501.31	96.530
20%	Vmin	102.5	502.81	97.850	102.6	503.45	97.860	102.5	502.86	97.860	102.5	502.59	97.850	102.5	502.83	97.850
30%	Vmin	152.62	504.84	98.170	153.2	505.06	98.180	153.4	504.62	98.170	153.4	504.57	98.180	153.3	504.81	98.170
50%	Vmin	254.87	503.06	98.280	255.1	502.31	98.280	254.9	502.02	98.270	255	503.31	98.270	254.9	504.95	98.270
75%	Vmin	382.02	500.8	98.120	382	501.1	98.120	382.3	501.57	98.120	382	501.96	98.120	382.1	501.24	98.120
100%	Vmin	508.13	505.17	97.830	508.2	505.64	97.840	508	505.5	97.840	508	505.77	97.850	508.1	505.8	97.840
10%	Vnom	51.484	660.58	93.760	51.61	660.98	93.730	51.56	660.78	93.770	51.48	661.2	93.710	51.45	660.51	93.690
20%	Vnom	102.37	661.22	96.290	102.4	661.09	96.300	102.4	660.21	96.290	102.3	659.91	96.300	102.4	660.31	96.300
30%	Vnom	153.26	660.68	97.060	153.3	660.68	97.060	153.2	660.84	97.060	153.3	660.71	97.060	153.2	660.85	97.070
50%	Vnom	254.84	660.68	97.540	254.9	658.17	97.560	254.9	658.69	97.540	254.8	662.05	97.530	254.8	662.35	97.530
75%	Vnom	382.27	660.98	97.560	382.4	661.18	97.560	382.4	661.38	97.560	382.2	660.86	97.560	382.3	660.58	97.550
100%	Vnom	508.17	661.5	97.390	508	661.79	97.390	508.1	661.58	97.390	508.2	661.58	97.390	508.3	661.42	97.380
10%	Vmax	51.674	798.04	92.560	51.65	798.1	92.570	51.53	798.16	92.560	51.61	798.58	92.510	51.58	798.7	92.540
20%	Vmax	102.4	797.81	95.510	102.5	797.7	95.490	102.5	797.35	95.500	102.5	797.35	95.490	102.5	797.48	95.490
30%	Vmax	153.29	797.83	96.470	153.3	797.96	96.450	153.4	797.86	96.450	153.2	797.83	96.460	153.2	797.78	96.450
50%	Vmax	254.73	798.19	97.080	254.8	798.29	97.090	254.8	799.08	97.100	254.9	798.51	97.110	254.7	798.14	97.110
75%	Vmax	382.52	799.23	97.180	382.3	798.03	97.200	382.4	798.47	97.200	382.3	798.59	97.200	382.3	797.91	97.200
100%	Vmax	508.3	796.97	97.080	508.3	797.36	97.080	508.3	797.83	97.080	508.4	796.29	97.080	508.4	798	97.070

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															