Manufacturer: PVPowered

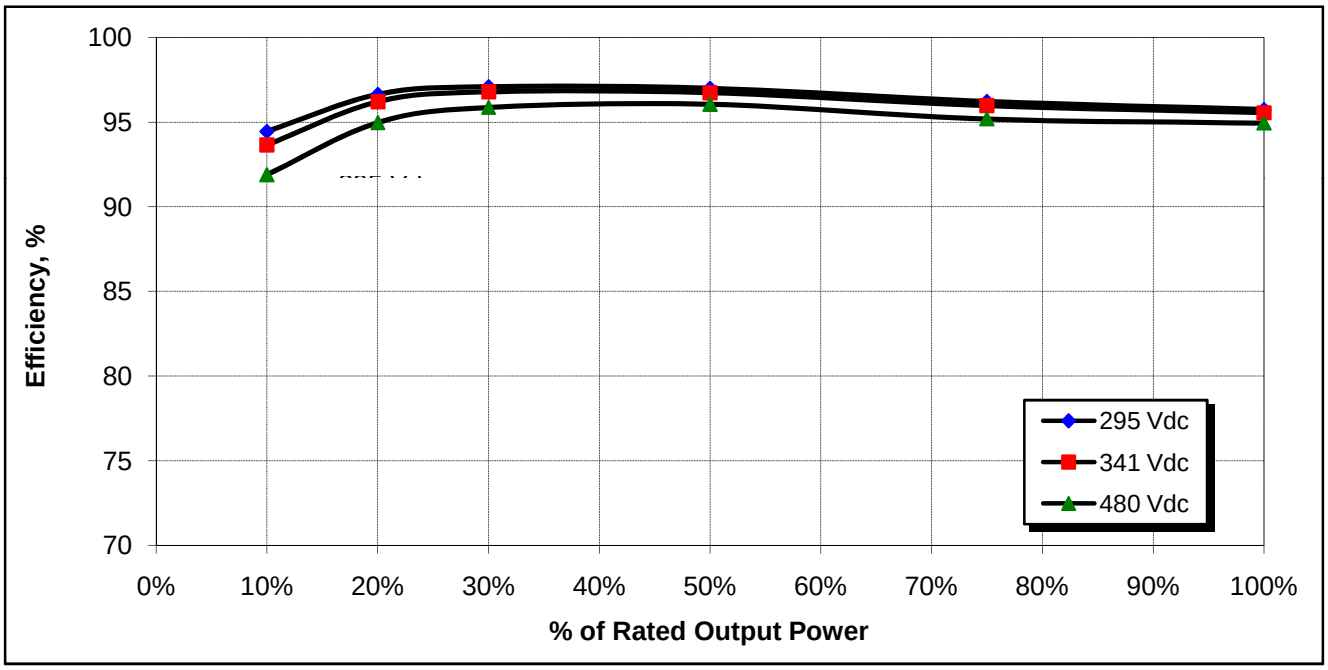
Model #: PVP 100kW 480V

Rated Maximum Continuous Output Power: 100.00 kW Night Tare Loss: 36.00 W

Vmin: 295 Vdc Vnom: 341 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		10.00	20.00	30.00	50.00	75.00	100.00	Wtd
Vmin	295	94.4	96.6	97.1	97.0	96.2	95.8	96.4
Vnom	341	93.7	96.2	96.8	96.7	96.0	95.6	96.1
Vmax	480	91.9	95.0	95.9	96.0	95.2	94.9	95.3

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	8987.4	295.8	94.48	8990.0	295.8	94.61	8986.1	295.8	94.37	8986.1	295.8	94.47	8986.6	295.8	94.38
20%	Vmin	18923.0	296.6	96.58	18922.0	296.6	96.58	18922.0	296.6	96.70	18920.0	296.6	96.66	18926.0	296.6	96.66
30%	Vmin	28805.0	295.8	97.14	28807.0	295.8	97.15	28796.0	295.8	97.02	28788.0	295.8	97.09	28803.0	295.8	97.10
50%	Vmin	48002.0	295.8	97.00	48005.0	295.9	97.00	47981.0	295.9	96.94	48019.0	295.9	97.02	47999.0	295.8	96.99
75%	Vmin	74833.0	296.7	96.23	74803.0	296.7	96.21	74823.0	296.7	96.22	74819.0	296.7	96.22	74819.0	296.7	96.24
100%	Vmin	95638.0	295.4	95.77	95637.0	295.4	95.77	95662.0	295.4	95.78	95660.0	295.4	95.76	95644.0	295.4	95.75
10%	Vnom	8972.7	342.4	93.68	8975.9	342.4	93.58	8976.8	342.4	93.64	8972.3	342.4	93.53	8973.2	342.4	93.63
20%	Vnom	18908.0	343.0	96.05	18909.0	343.0	96.22	18907.0	343.0	96.21	18910.0	343.0	96.31	18910.0	343.0	96.21
30%	Vnom	28798.0	343.0	96.76	28779.0	343.0	96.73	28787.0	343.0	96.78	28771.0	343.0	96.67	28786.0	343.0	96.83
50%	Vnom	47989.0	341.5	96.74	47987.0	341.5	96.78	47988.0	341.5	96.75	48001.0	341.5	96.78	47976.0	341.5	96.71
75%	Vnom	74814.0	341.7	95.96	74838.0	341.6	95.96	74824.0	341.7	95.96	74810.0	341.7	95.96	74829.0	341.7	95.97
100%	Vnom	95626.0	342.6	95.58	95615.0	342.6	95.56	95606.0	342.6	95.57	95621.0	342.6	95.58	95629.0	342.6	95.58
10%	Vmax	8973.3	481.9	92.00	8974.0	481.9	91.98	8974.2	481.9	91.88	8971.8	481.9	91.98	8975.8	481.9	91.81
20%	Vmax	18894.0	483.3	94.96	18905.0	483.3	95.09	18909.0	483.3	94.99	18901.0	483.3	95.01	18903.0	483.3	95.01
30%	Vmax	29110.0	482.4	95.87	29091.0	482.4	95.78	29108.0	482.4	95.84	29099.0	482.4	95.85	29114.0	482.4	95.89
50%	Vmax	47992.0	481.8	96.03	47992.0	481.9	96.08	47998.0	481.8	96.04	47995.0	481.8	96.09	47980.0	481.8	96.07
75%	Vmax	74835.0	480.7	95.15	74835.0	480.7	95.16	74829.0	480.7	95.18	74834.0	480.7	95.18	74869.0	480.7	95.21
100%	Vmax	95622.0	481.1	94.94	95593.0	481.1	94.96	95634.0	481.1	94.97	95626.0	481.1	94.96	95627.0	481.2	94.94

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	8986.4	295.8	94.38	8987.5	295.8	94.43	8986.3	295.8	94.49	8987.6	295.8	94.48	8985.5	295.8	94.30
20%	Vmin	18922.0	296.6	96.652	18921.0	296.6	96.686	18924.0	296.6	96.628	18924.0	296.6	96.619	18921.0	296.6	96.633
30%	Vmin	28796.0	295.8	97.095	28805.0	295.8	97.083	28789.0	295.8	97.072	28786.0	295.8	97.080	28786.0	295.8	97.094
50%	Vmin	47993.0	295.9	97.012	48012.0	295.9	97.037	47996.0	295.9	97.016	48009.0	295.8	97.017	47996.0	295.9	97.003
75%	Vmin	74840.0	296.7	96.234	74823.0	296.7	96.223	74820.0	296.7	96.251	74823.0	296.7	96.224	74814.0	296.7	96.222
100%	Vmin	95694.0	295.4	95.762	95667.0	295.4	95.755	95690.0	295.4	95.767	95666.0	295.4	95.757	95677.0	295.4	95.731
10%	Vnom	8974.7	342.4	93.668	8974.1	342.4	93.662	8974.1	342.4	93.611	8974.0	342.3	93.726	8974.7	342.4	93.800
20%	Vnom	18907.0	343.0	96.308	18894.0	343.0	96.204	18905.0	343.0	96.222	18912.0	343.0	96.132	18897.0	343.0	96.138
30%	Vnom	28792.0	343.0	96.776	28775.0	343.0	96.821	28785.0	343.0	96.818	28794.0	343.0	96.859	28794.0	343.0	96.830
50%	Vnom	47966.0	341.5	96.668	47976.0	341.5	96.717	47978.0	341.5	96.712	47993.0	341.5	96.755	47972.0	341.5	96.723
75%	Vnom	74814.0	341.7	95.983	74814.0	341.7	95.962	74832.0	341.7	95.980	74817.0	341.7	95.978	74808.0	341.7	95.978
100%	Vnom	95630.0	342.6	95.581	95603.0	342.6	95.548	95599.0	342.6	95.563	95605.0	342.6	95.561	95633.0	342.6	95.571
10%	Vmax	8973.2	481.9	91.786	8974.8	481.9	91.774	8975.5	481.9	91.960	8972.8	481.9	91.948	8975.5	481.9	91.774
20%	Vmax	18890.0	483.3	94.982	18906.0	483.3	94.875	18906.0	483.3	94.925	18888.0	483.3	94.909	18893.0	483.3	94.932
30%	Vmax	29092.0	482.4	95.897	29095.0	482.4	95.829	29109.0	482.4	95.983	29112.0	482.4	95.905	29104.0	482.4	95.857
50%	Vmax	47997.0	481.8	96.103	47986.0	481.8	96.042	47982.0	481.8	96.034	47982.0	481.8	95.990	47995.0	481.8	96.018
75%	Vmax	74846.0	480.7	95.222	74840.0	480.7	95.204	74818.0	480.7	95.207	74830.0	480.7	95.169	74832.0	480.7	95.221
100%	Vmax	95594.0	481.1	94.957	95619.0	481.1	94.931	95624.0	481.2	94.945	95605.0	481.2	94.923	95596.0	481.2	94.911