Manufacturer: Xantrex Technologies

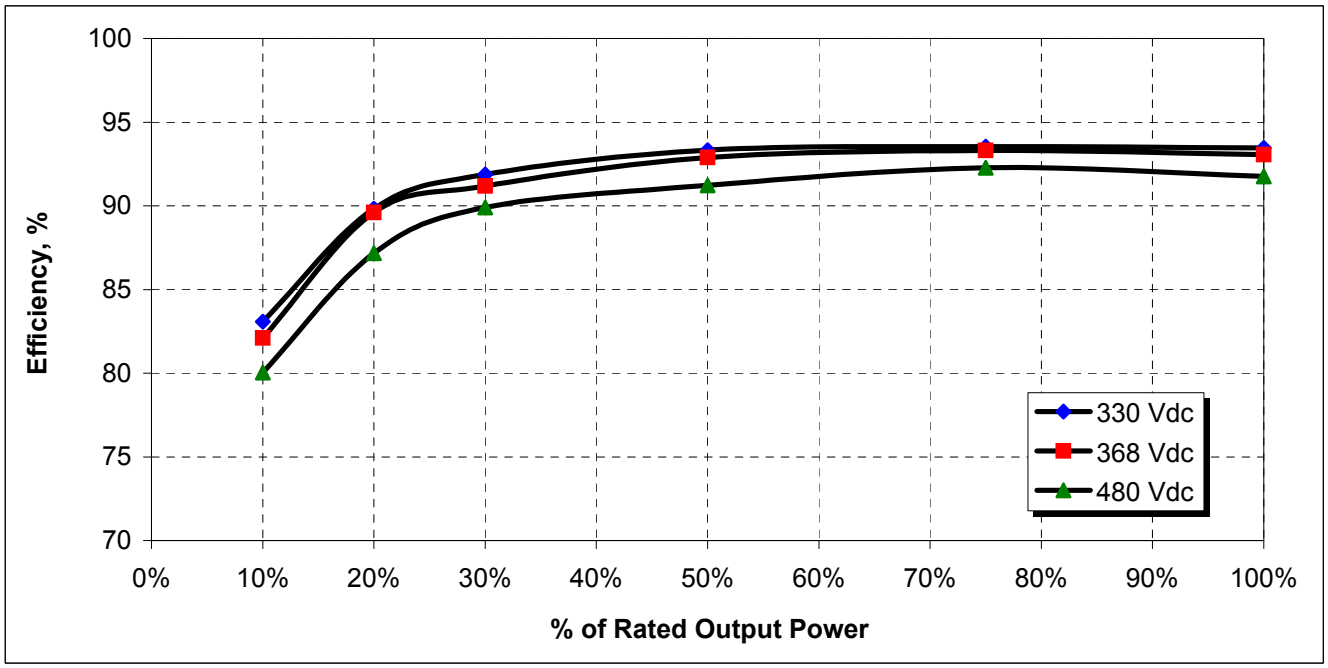
Model #: PV30-208- With 480 transformer

Rated Maximum Continuous Output Power: 29.97 kW Night Tare Loss: 454.80 W

Vmin: 330 Vdc Vnom: 368 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		3.00	5.99	8.99	14.99	22.48	29.97	Wtd
Vmin	330	83.1	89.8	91.9	93.3	93.5	93.5	92.7
Vnom	368	82.1	89.6	91.2	92.9	93.3	93.1	92.3
Vmax	480	80.0	87.2	89.9	91.2	92.3	91.8	91.0

CEC Efficiency = 92.0%



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	3.0384	330.24	83.060	3.0384	330.24	83.060	3.0412	330.23	83.090	3.0412	330.23	83.090	3.0408	330.23	83.100
20%	Vmin	6.121	330.19	89.790	6.124	330.19	89.820	6.125	330.19	89.800	6.13	330.19	89.840	6.13	330.19	89.830
30%	Vmin	9.276	330.18	91.920	9.266	330.18	91.880	9.265	330.19	91.880	9.261	330.19	91.880	9.259	330.19	91.870
50%	Vmin	15.18	330.16	93.320	15.169	330.16	93.310	15.166	330.16	93.320	15.167	330.15	93.320	15.165	330.16	93.320
75%	Vmin	22.707	331.17	93.440	22.723	331.17	93.460	22.74	331.17	93.490	22.75	331.17	93.520	22.774	331.17	93.580
100%	Vmin	30.137	331.03	93.510	30.144	331	93.500	30.144	331.04	93.470	30.15	331.05	93.460	30.156	331.06	93.460
10%	Vnom	3.0843	368.54	82.020	3.0849	368.54	82.040	3.0894	368.54	82.090	3.091	368.54	82.120	3.092	368.54	82.120
20%	Vnom	6.235	368.6	89.620	6.233	368.59	89.600	6.229	368.58	89.600	6.229	368.58	89.600	6.226	368.57	89.580
30%	Vnom	9.4	368.5	91.150	9.395	368.5	91.160	9.387	368.5	91.140	9.383	368.5	91.170	9.383	368.5	91.220
50%	Vnom	15.358	368.49	92.940	15.251	368.49	92.910	15.351	368.49	92.910	15.351	368.49	92.880	15.351	368.49	92.880
75%	Vnom	22.668	368.44	93.320	22.693	368.45	93.320	22.69	368.45	93.290	22.691	368.46	93.300	22.696	368.46	93.310
100%	Vnom	30.23	368.37	93.080	30.209	368.37	93.080	30.197	368.38	93.090	30.172	368.38	93.070	30.164	368.38	93.070
10%	Vmax	3.3244	480.64	79.960	3.3284	480.64	80.000	3.3318	480.64	80.050	3.3313	480.65	80.040	3.3322	480.65	80.060
20%	Vmax	6.161	480.7	87.220	6.153	480.71	87.220	6.151	480.71	87.160	6.149	480.71	87.150	6.145	480.71	87.130
30%	Vmax	9.343	480.59	89.920	9.334	480.6	89.900	9.327	480.6	89.890	9.323	480.61	89.900	9.322	480.61	89.900
50%	Vmax	15.266	480.66	91.140	15.282	480.66	91.210	15.282	480.66	91.210	15.291	480.66	91.250	15.289	480.66	91.250
75%	Vmax	22.639	480.61	92.230	22.67	480.61	92.250	22.675	480.61	92.260	22.688	480.61	92.270	22.692	480.62	92.280
100%	Vmax	30.79	480.55	91.760	30.503	480.54	91.760	30.522	480.53	91.770	30.528	480.53	91.780	30.518	480.53	91.770

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	3.0421	330.23	83.110	3.0426	330.23	83.100									
20%	Vmin	6.13	330.19	89.840	6.131	330.19	89.830									
30%	Vmin	9.256	330.19	91.870	9.251	330.19	91.850									
50%	Vmin	15.164	330.16	93.330	15.161	330.16	93.330									
75%	Vmin	22.793	331.16	93.600	22.817	331.16	93.650									
100%	Vmin	30.162	331.08	93.440	30.169	331.08	93.430									
10%	Vnom	3.0927	368.54	82.120	3.0947	368.54	82.150									
20%	Vnom	6.226	368.57	89.580	6.224	368.57	89.590									
30%	Vnom	9.38	368.5	91.230	9.376	368.5	91.250									
50%	Vnom	15.349	368.48	92.880	15.351	368.48	92.860									
75%	Vnom	22.7	368.46	93.310	22.711	368.47	93.310									
100%	Vnom	30.142	368.37	93.050	30.132	368.37	93.040									
10%	Vmax	3.331	480.65	80.050	3.3331	480.66	80.090									
20%	Vmax	6.147	480.71	87.150	6.14	480.71	87.120									
30%	Vmax	9.32	480.62	89.900	9.313	480.62	89.900									
50%	Vmax	15.288	480.66	91.250	15.298	480.66	91.290									
75%	Vmax	22.697	480.62	92.280	22.715	480.62	92.300									
100%	Vmax	30.519	480.53	91.770	30.525	480.53	91.770									