Manufacturer: Xantrex Technologies

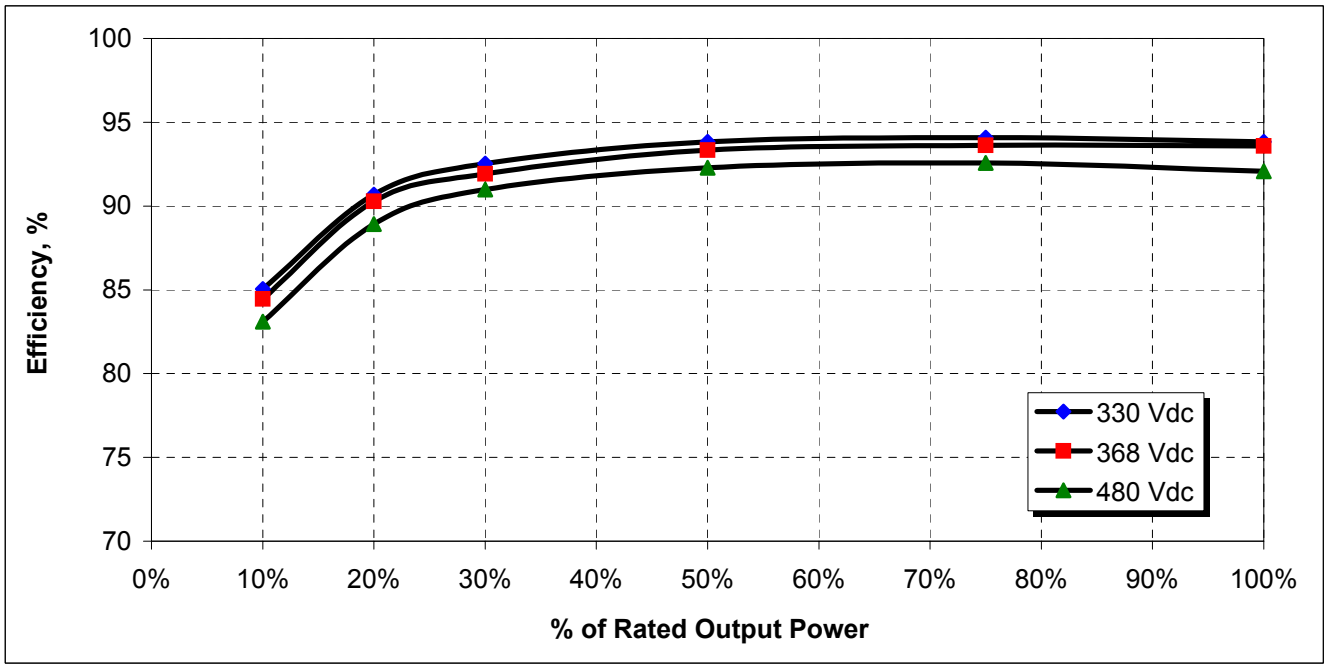
Model #: PV45-208- With 208 transformer

Rated Maximum Continuous Output Power: 45.35 kW Night Tare Loss: 489.00 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		4.53	9.07	13.60	22.67	34.01	45.35	Wtd
Vmin	330	85.0	90.7	92.5	93.8	94.1	93.8	93.3
Vnom	368	84.4	90.3	91.9	93.3	93.6	93.6	92.8
Vmax	480	83.1	88.9	91.0	92.3	92.6	92.1	91.7

CEC Efficiency = 92.5%



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	4.694	330.21	85.220	4.726	330.21	85.220	4.688	330.24	84.780	4.683	330.26	84.880	4.714	330.2	85.150
20%	Vmin	9.258	330.21	90.640	9.273	330.21	90.740	9.268	330.21	90.650	9.26	330.21	90.690	9.27	330.21	90.700
30%	Vmin	13.848	330.19	92.520	13.848	330.19	92.520	13.858	330.19	92.550	13.828	330.19	92.510	13.868	330.19	92.610
50%	Vmin	23.09	33.05	93.830	23.09	330.06	93.850	23.07	330.06	93.830	23.1	330.06	93.870	23.03	330.05	93.770
75%	Vmin	33.88	330.95	94.130	33.78	330.94	94.010	33.89	330.94	94.130	33.83	330.94	94.150	33.81	330.94	93.890
100%	Vmin	45.3	330.81	93.780	45.41	330.83	93.890	45.28	330.82	93.760	45.38	330.82	93.910	45.35	330.81	93.750
10%	Vnom	4.894	368.56	85.000	4.821	368.56	84.000	4.833	368.53	84.310	4.877	368.55	84.740	4.897	368.55	85.040
20%	Vnom	9.488	368.57	90.230	9.522	368.57	90.340	9.479	368.57	90.230	9.533	368.56	90.360	9.473	368.55	90.210
30%	Vnom	13.591	368.49	91.840	13.619	368.5	91.950	13.625	368.5	91.970	13.623	368.5	91.910	13.639	368.51	91.980
50%	Vnom	22.95	368.42	93.420	22.86	368.42	93.320	22.88	368.41	93.280	22.94	368.41	93.420	22.86	368.41	93.240
75%	Vnom	33.17	368.29	93.590	33.24	368.31	93.630	33.17	368.29	93.590	33.3	368.31	93.640	33.21	368.29	93.620
100%	Vnom	45.74	368.22	93.280	45.58	368.2	93.240	45.81	368.24	93.370	45.79	368.18	93.310	45.75	368.22	93.230
10%	Vmax	4.294	480.66	83.160	4.915	480.67	83.150	4.933	480.69	83.170	4.889	480.68	83.000	4.912	480.68	83.070
20%	Vmax	9.54	480.67	88.950	9.507	480.66	88.850	9.589	480.68	89.000	9.516	480.66	88.890	9.577	480.67	88.960
30%	Vmax	14.216	480.63	91.060	14.162	480.63	90.930	14.191	480.62	91.060	14.219	480.65	91.050	14.125	480.64	90.830
50%	Vmax	22.79	480.56	92.240	23	480.56	92.260	22.96	480.56	92.290	22.98	480.55	92.260	23.05	480.56	92.360
75%	Vmax	33.94	480.44	92.590	33.85	480.44	92.600	33.88	480.46	92.560	33.9	480.46	92.600	33.79	480.44	92.510
100%	Vmax	45.63	480.4	92.050	45.87	480.43	92.100	45.55	480.38	92.050	45.77	480.44	92.090	45.6	480.4	92.060

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	4.721	330.24	85.120	4.681	330.23	84.900									
20%	Vmin	9.248	330.2	90.660	9.267	330.2	90.720									
30%	Vmin	13.84	330.18	92.550	13.842	330.18	92.520									
50%	Vmin	23.11	330.06	93.870	23.06	333.05	93.790									
75%	Vmin	33.86	330.96	94.100	33.77	330.93	94.090									
100%	Vmin	45.34	330.8	93.890	45.4	330.85	93.820									
10%	Vnom	4.828	368.53	83.960	4.828	368.56	84.080									
20%	Vnom	9.528	368.56	90.340	9.476	368.56	90.230									
30%	Vnom	13.587	368.5	91.790	13.659	368.5	91.970									
50%	Vnom	22.98	368.41	93.420	22.86	368.39	93.290									
75%	Vnom	33.21	368.3	93.600	33.28	368.3	93.660									
100%	Vnom	46.64	368.22	95.310	45.65	368.2	93.290									
10%	Vmax	4.912	480.68	83.120	4.887	480.68	82.970									
20%	Vmax	9.518	480.66	88.900	9.522	480.66	88.890									
30%	Vmax	14.214	480.66	91.020	14.165	480.64	91.020									
50%	Vmax	22.92	480.55	92.250	23.08	480.57	92.340									
75%	Vmax	33.88	480.46	92.590	33.75	480.44	92.500									
100%	Vmax	45.71	480.41	92.060	45.69	480.42	92.110									