Manufacturer: Ballard Power Systems Corp.

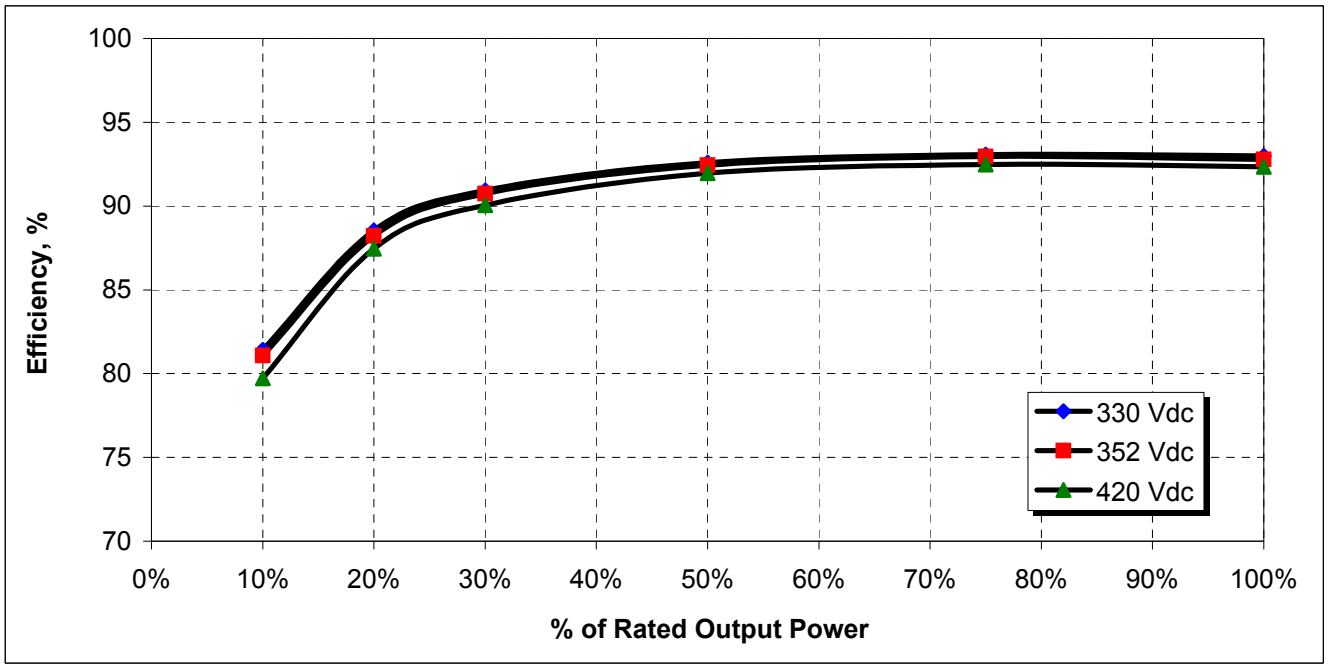
Model #: EPC-PV-480-75KW

Rated Maximum Continuous Output Power: 75.00 kW Night Tare Loss: 110.00 W

Vmin: 330 Vdc Vnom: 352 Vdc Vmax: 420 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		7.50	15.00	22.50	37.50	56.25	75.00	Wtd
Vmin	330	81.4	88.5	90.9	92.6	93.1	93.0	92.0
Vnom	352	81.1	88.2	90.7	92.4	92.9	92.8	91.9
Vmax	420	79.7	87.5	90.1	92.0	92.5	92.3	91.3

CEC Efficiency = 91.5%



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	7559	331.05	81.499	7523	331.06	81.374	7532	331.07	81.392	7521	331.07	81.352	7516	331.06	81.404
20%	Vmin	15190	330.69	88.582	15124	330.69	88.512	15158	330.67	88.591	15124	330.68	88.522	15158	330.68	88.540
30%	Vmin	22544	330.33	90.940	22542	330.31	90.943	22508	330.31	90.923	22565	330.32	90.937	22557	330.33	90.937
50%	Vmin	37497	331.06	92.581	37535	331.08	92.588	37406	331.09	92.578	37497	331.09	92.585	37469	331.1	92.580
75%	Vmin	56276	330.07	93.057	56260	330.08	93.050	56326	330.07	93.053	56269	330.07	93.070	56251	330.08	93.060
100%	Vmin	75072	330.47	92.925	75146	330.45	92.924	75101	330.46	92.925	75084	330.4	92.817	75141	330.43	92.927
10%	Vnom	7468	351.97	80.945	7471	351.97	81.039	7562	351.96	81.094	7547	351.94	81.055	7516	351.95	81.087
20%	Vnom	15069	352.61	88.226	15129	352.6	88.190	15154	352.6	88.207	15157	352.6	88.071	15094	352.6	88.315
30%	Vnom	22556	352.3	90.728	22451	352.3	90.729	22478	352.29	90.696	22505	352.27	90.702	22575	352.28	90.739
50%	Vnom	37535	351.59	92.444	37567	351.6	92.441	37502	351.6	92.433	37565	351.58	92.434	37512	351.6	92.437
75%	Vnom	56252	351.59	92.963	56206	351.61	92.950	56161	351.6	92.948	56242	351.6	92.944	56203	351.61	92.948
100%	Vnom	75155	355.66	92.781	75150	355.55	92.763	75171	355.55	92.788	75225	355.56	92.775	75196	355.55	92.774
10%	Vmax	7532	420.65	79.771	7404	420.66	79.570	7546	420.63	79.776	7406	420.64	79.557	7569	420.65	79.867
20%	Vmax	15187	420.34	87.543	15210	420.36	87.489	15223	420.35	87.463	15089	420.36	87.396	15190	420.35	87.445
30%	Vmax	22500	420.14	90.058	22500	420.14	90.058	22450	420.11	90.023	22601	420.1	90.058	22542	420.12	90.064
50%	Vmax	37628	419.53	91.946	37642	419.53	91.967	37583	419.51	91.948	37618	419.51	91.946	37579	419.53	91.941
75%	Vmax	56243	421.68	92.458	56223	421.68	92.469	56253	421.69	92.461	56275	421.71	92.465	56267	421.69	92.458
100%	Vmax	75141	420.83	92.336	75114	420.82	92.334	75130	420.82	92.339	75101	420.84	92.343	75137	420.84	92.339

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	7529	331.05	81.386	7572	331.08	81.498									
20%	Vmin	15131	330.68	88.496	15099	330.68	88.495									
30%	Vmin	22529	330.34	90.920	22533	330.34	90.929									
50%	Vmin	37557	331.09	92.587	37481	331.11	92.587									
75%	Vmin	56256	330.09	93.064	56269	330.1	93.057									
100%	Vmin	75141	330.43	92.926	75065	330.52	93.480									
10%	Vnom	7607	351.94	81.211	7494	351.96	81.034									
20%	Vnom	15107	352.6	88.216	15230	352.59	88.254									
30%	Vnom	22434	352.28	90.833	22510	352.3	90.715									
50%	Vnom	37476	351.59	92.433	37584	351.57	92.437									
75%	Vnom	56219	351.59	92.944	56178	351.59	92.945									
100%	Vnom	75201	355.56	92.780	75190	355.58	92.776									
10%	Vmax	7521	420.64	79.756	7485	420.65	79.704									
20%	Vmax	15144	420.36	87.401	15121	420.36	87.415									
30%	Vmax	22546	420.12	90.040	22532	420.12	90.056									
50%	Vmax	37655	419.51	91.965	37596	419.51	91.944									
75%	Vmax	56224	421.71	92.480	56230	421.71	92.477									
100%	Vmax	75114	420.86	92.340	75114	420.83	92.333									