Manufacturer: Ballard Power Systems Corp.

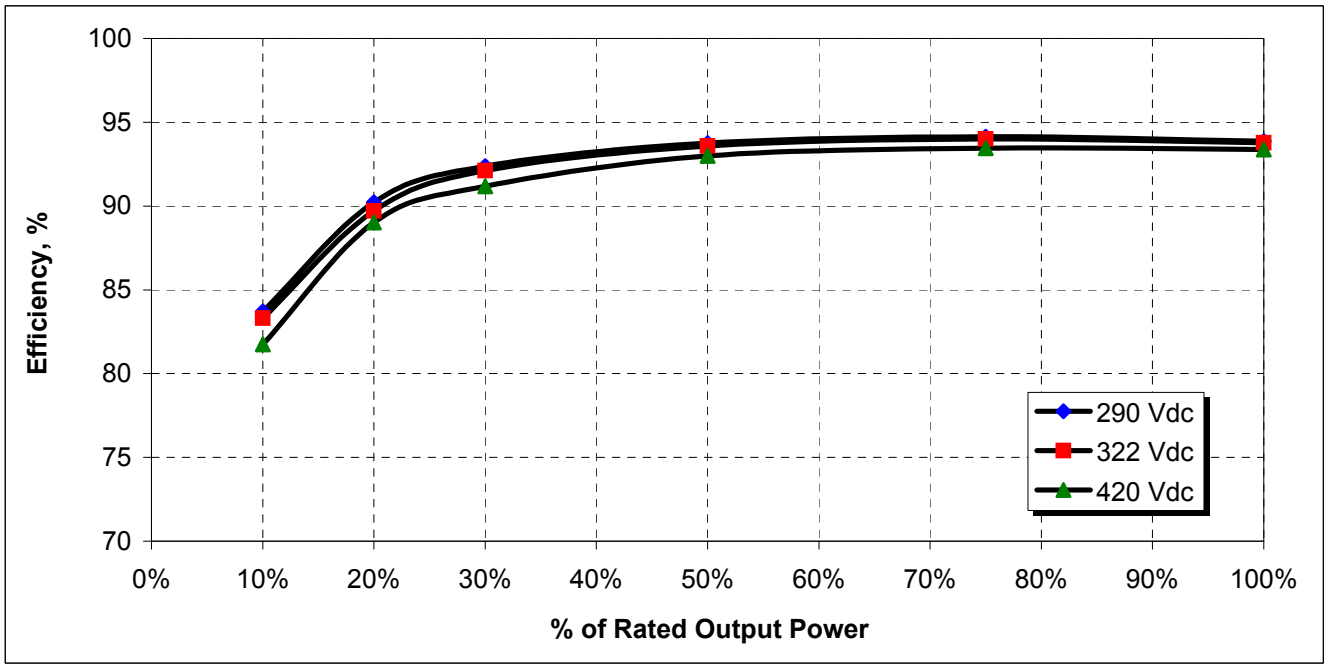
Model #: EPC-PV-208-30KW

Rated Maximum Continuous Output Power: 30.00 kW Night Tare Loss: 32.00 W

Vmin: 290 Vdc Vnom: 322 Vdc Vmax: 420 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		3.00	6.00	9.00	15.00	22.50	30.00	Wtd
Vmin	290	83.72	90.23	92.39	93.75	94.13	93.87	93.22
Vnom	322	83.30	89.70	92.12	93.58	94.00	93.77	93.03
Vmax	420	81.74	89.02	91.17	93.00	93.45	93.37	92.39

CEC Efficiency = 93.0%



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	2991	290.26	83.711	2972	290.27	83.836	2980	290.27	83.637	2977	290.26	83.741	2980	290.26	83.708
20%	Vmin	6095	290.15	90.430	6042	290.14	90.220	6050	290.14	90.137	6051	290.15	90.165	6054	290.13	90.210
30%	Vmin	9049	290.01	92.374	9030	290.02	92.379	9065	290	92.434	9020	289.99	92.361	9027	289.99	92.386
50%	Vmin	15033	294.31	93.745	15031	294.41	93.739	15049	293.95	93.763	14998	294.27	93.767	15027	294.37	93.737
75%	Vmin	22515	290.91	94.122	22510	290.29	94.133	22528	290.64	94.133	22488	290.89	94.112	22496	290.8	94.141
100%	Vmin	30293	290.47	93.879	30288	290.47	93.878	30271	290.48	93.878	30283	290.47	93.860	30272	290.5	93.872
10%	Vnom	3028	322.66	83.347	3004	322.67	83.352	3027	322.66	83.274	3027	322.66	83.274	3030	322.65	83.310
20%	Vnom	5992	322.41	89.647	5992	322.41	89.647	5991	322.4	89.753	6003	322.4	89.744	5998	322.41	89.723
30%	Vnom	8999	322.29	92.137	9016	322.29	92.141	8976	322.29	92.052	9004	322.28	92.188	9013	322.3	92.157
50%	Vnom	15092	322.34	93.582	15063	322.36	93.600	15063	322.36	93.565	15041	322.34	93.591	15061	322.33	93.581
75%	Vnom	22556	322.05	94.011	22538	322.04	94.014	22537	322.05	93.982	22560	322.05	93.988	22574	322.05	94.003
100%	Vnom	30121	322.17	93.768	30155	322.16	93.768	30136	322.17	93.779	30126	322.18	93.777	30115	322.19	93.778
10%	Vmax	3036	419.9	81.701	3058	419.83	81.874	3043	419.85	81.801	3014	419.84	81.702	3010	419.87	81.594
20%	Vmax	6016	419.84	88.823	6002	419.82	88.734	6068	419.86	88.869	6027	419.83	88.881	6003	419.79	88.710
30%	Vmax	9007	420.01	91.201	9012	420	91.187	9015	420	91.208	8999	420.01	91.138	9007	420.02	91.136
50%	Vmax	15069	419.86	92.984	15075	419.87	93.015	15101	419.88	92.998	15063	419.85	92.999	15070	419.87	92.979
75%	Vmax	22490	420.11	93.440	22477	420.12	93.463	22465	420.13	93.441	22441	420.11	93.454	22452	420.12	93.433
100%	Vmax	30168	419.82	93.385	30145	419.83	93.363	30142	419.83	93.382	30177	419.83	93.361	30148	419.85	93.352

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	2958	290.28	83.654	2984	290.27	83.726									
20%	Vmin	6042	290.13	90.166	6058	290.12	90.297									
30%	Vmin	9026	290	92.375	9052	290	92.396									
50%	Vmin	15028	294.37	93.773	15051	294.29	93.746									
75%	Vmin	22532	290.9	94.142	22515	290.28	94.130									
100%	Vmin	30299	290.48	93.878	30288	290.48	93.873									
10%	Vnom	3024	322.66	83.260	3004	322.65	83.306									
20%	Vnom	6003	322.41	89.677	6010	322.38	89.728									
30%	Vnom	8954	322.31	92.053	9010	322.3	92.089									
50%	Vnom	15080	322.33	93.572	15068	322.33	93.561									
75%	Vnom	22515	322.07	94.004	22551	322.05	94.010									
100%	Vnom	30133	322.18	93.770	30104	322.19	93.779									
10%	Vmax	3043	419.88	81.801	3036	419.89	81.723									
20%	Vmax	6020	419.82	88.869	6106	419.8	90.272									
30%	Vmax	9019	420.02	91.184	8965	420.02	91.145									
50%	Vmax	15098	419.83	93.025	15079	419.84	92.971									
75%	Vmax	22483	420.12	93.465	22454	420.12	93.457									
100%	Vmax	30154	419.85	93.370	30120	419.83	93.369									