Manufacturer: Power-One, Inc.

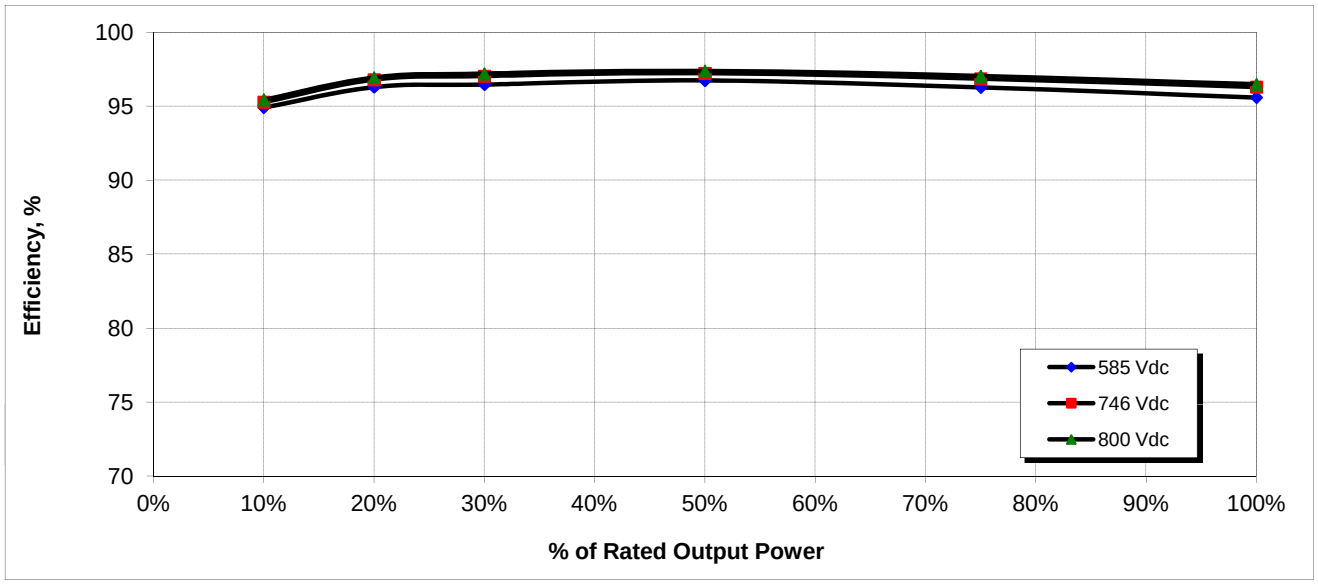
Model #: ULTRA-1500-TL-OUTD-2-US-690

Rated Maximum Continuous Output Power: 1500.00 kW Night Tare Loss: 374 W

Vmin: 585 Vdc Vnom: 746 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		150.00	300.00	450.00	750.00	1125.00	1500.00	Wtd
Vmin	585	94.91	96.29	96.47	96.74	96.28	95.59	96.31
Vnom	746	95.28	96.79	97.03	97.23	96.86	96.29	96.86
Vmax	800	95.44	96.94	97.20	97.39	97.04	96.48	97.03

CEC Efficiency of Inverter and MV TP1 Transformer = 96.5%



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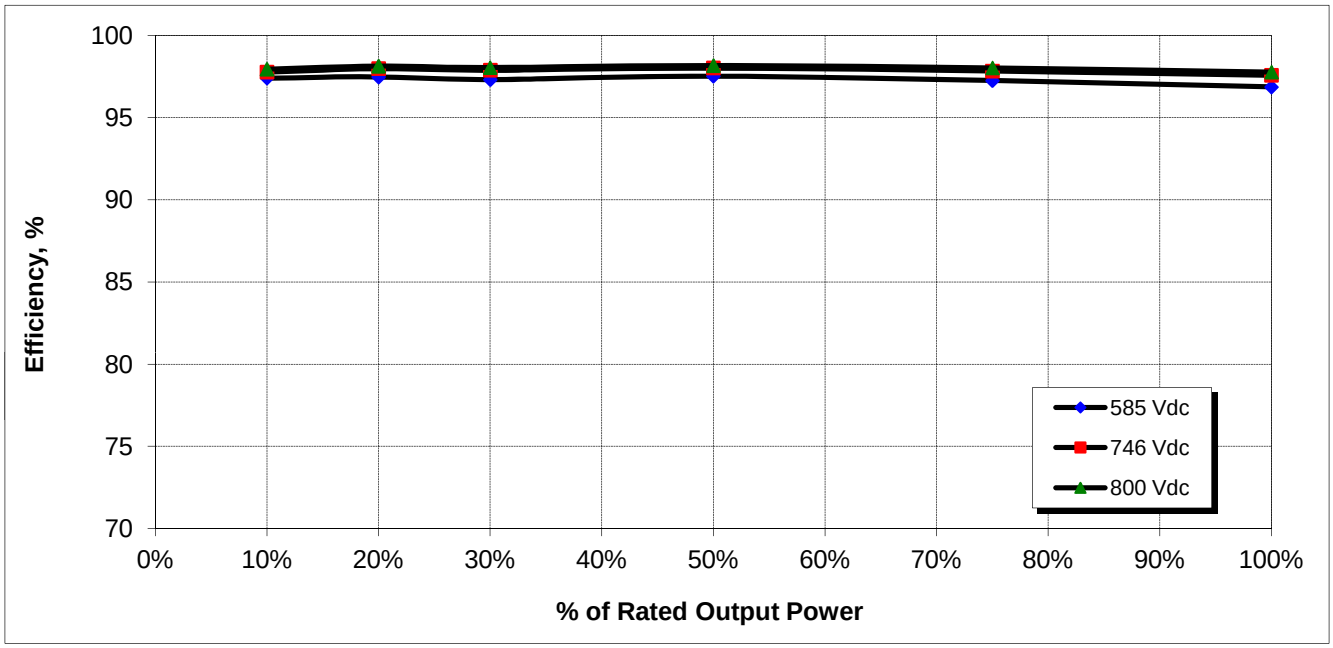
Model #: ULTRA-1500-TL-OUTD-2-US

Rated Maximum Continuous Output Power: 1500.0 kW Night Tare Loss: 374 W

Vmin: 585 Vdc Vnom: 746 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		150.00	300.00	450.00	750.00	1125.00	1500.00	Wtd
Vmin	585	97.40	97.47	97.31	97.52	97.25	96.86	97.31
Vnom	746	97.77	97.98	97.89	98.02	97.84	97.57	97.87
Vmax	800	97.94	98.13	98.05	98.17	98.02	97.76	98.04

Inverter Efficiency only = 97.5%



1500kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		150.00	300.00	450.00	750.00	1125.00	1500.00	Wtd
Vmin	585	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vnom	746	97.45	98.79	99.13	99.20	99.00	98.69	98.97
Vmax	800	97.45	98.79	99.13	99.20	99.00	98.69	98.97

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)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)	(W)	(Vdc)	(%)
10%	Vmin	146012.5	585.8	97.4	145978.1	585.7	97.4	146085.9	585.4	97.4	146076.3	585.3	97.4	146010.6	585.6	97.4
20%	Vmin	326580.3	585.8	97.5	326635.9	585.7	97.5	326586.7	585.7	97.5	326611.0	585.6	97.5	326645.9	585.4	97.5
30%	Vmin	419144.4	585.9	97.3	419146.8	585.5	97.3	419129.3	584.7	97.3	419108.4	584.8	97.3	419125.0	584.9	97.3
50%	Vmin	676449.8	585.6	97.5	676584.0	585.7	97.5	676620.2	585.8	97.5	676449.6	585.5	97.5	676551.1	585.5	97.5
75%	Vmin	1053485.9	585.5	97.3	1053425.6	585.4	97.3	1053360.4	585.4	97.2	1053375.2	585.4	97.3	1053302.9	585.2	97.2
100%	Vmin	1427853.9	585.6	96.9	1427929.7	585.6	96.9	1428027.0	585.5	96.9	1428083.9	585.4	96.9	1428111.5	585.5	96.9
10%	Vnom	147898.2	745.2	97.8	147892.9	745.3	97.8	147857.5	745.4	97.8	147888.6	745.6	97.8	147889.1	745.4	97.8
20%	Vnom	321507.2	745.4	98.0	321526.6	745.7	98.0	321464.3	745.7	98.0	321479.4	745.5	98.0	321471.8	745.2	98.0
30%	Vnom	419818.2	745.7	97.9	419801.3	745.7	97.9	419796.9	745.5	97.9	419781.8	745.6	97.9	419723.6	745.7	97.9
50%	Vnom	682458.6	745.3	98.0	682477.0	745.4	98.0	682459.1	745.6	98.0	682340.0	745.1	98.0	682394.1	745.5	98.0
75%	Vnom	1061651.1	745.8	97.8	1061607.1	745.5	97.8	1061646.9	745.7	97.8	1061768.9	745.6	97.9	1061607.1	745.3	97.8
100%	Vnom	1438451.7	745.7	97.6	1438320.5	745.2	97.6	1438495.6	745.4	97.6	1438616.6	745.2	97.6	1438558.3	745.3	97.6
10%	Vmax	148784.1	801.5	98.0	148796.1	801.7	97.9	148791.6	801.3	98.0	148788.2	800.9	97.9	148719.3	801.2	97.9
20%	Vmax	321795.3	800.7	98.1	321775.9	800.1	98.1	321802.2	800.8	98.1	321754.9	800.3	98.1	321787.4	800.9	98.1
30%	Vmax	420005.6	802.1	98.0	420121.5	802.2	98.1	420079.9	801.6	98.1	420137.1	801.2	98.1	420083.3	801.0	98.0
50%	Vmax	682667.7	802.1	98.2	682915.7	801.8	98.2	682807.1	801.3	98.2	682714.0	801.3	98.2	682715.8	801.5	98.2
75%	Vmax	1062071.3	800.9	98.0	1062121.2	801.3	98.0	1062077.9	800.5	98.0	1062083.6	801.4	98.0	1062081.9	801.9	98.0
100%	Vmax	1439666.2	797.7	97.8	1439629.9	798.0	97.8	1439794.6	798.0	97.8	1439907.2	798.7	97.8	1439652.2	798.4	97.8

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	146029.6	585.4	97.4	146027.3	585.4	97.4									
20%	Vmin	326612.8	585.4	97.5	326615.2	585.2	97.5									
30%	Vmin	419079.7	585.6	97.3	419067.0	585.8	97.3									
50%	Vmin	676669.4	585.2	97.5	676500.2	585.2	97.5									
75%	Vmin	1053264.2	585.5	97.3	1053350.1	585.7	97.3									
100%	Vmin	1428058.2	585.3	96.9	1427993.6	585.1	96.9									
10%	Vnom	147797.9	745.4	97.8	147820.0	745.4	97.8									
20%	Vnom	321517.4	745.2	98.0	321456.6	745.6	98.0									
30%	Vnom	419878.9	745.4	97.9	419819.3	745.8	97.9									
50%	Vnom	682399.7	745.5	98.0	682360.8	745.4	98.0									
75%	Vnom	1061657.2	745.4	97.8	1061686.8	745.1	97.8									
100%	Vnom	1438500.9	745.0	97.6	1438416.9	745.3	97.6									
10%	Vmax	148788.1	801.5	97.9	148828.9	801.3	98.0									
20%	Vmax	321679.5	801.2	98.1	321801.8	801.1	98.2									
30%	Vmax	420073.8	800.5	98.0	420037.9	800.8	98.0									
50%	Vmax	682882.7	801.8	98.2	682718.4	801.8	98.2									
75%	Vmax	1062151.2	801.4	98.0	1062135.6	802.2	98.0									
100%	Vmax	1439615.8	797.8	97.8	1439718.8	797.4	97.8									