Manufacturer: Power-One, Inc.

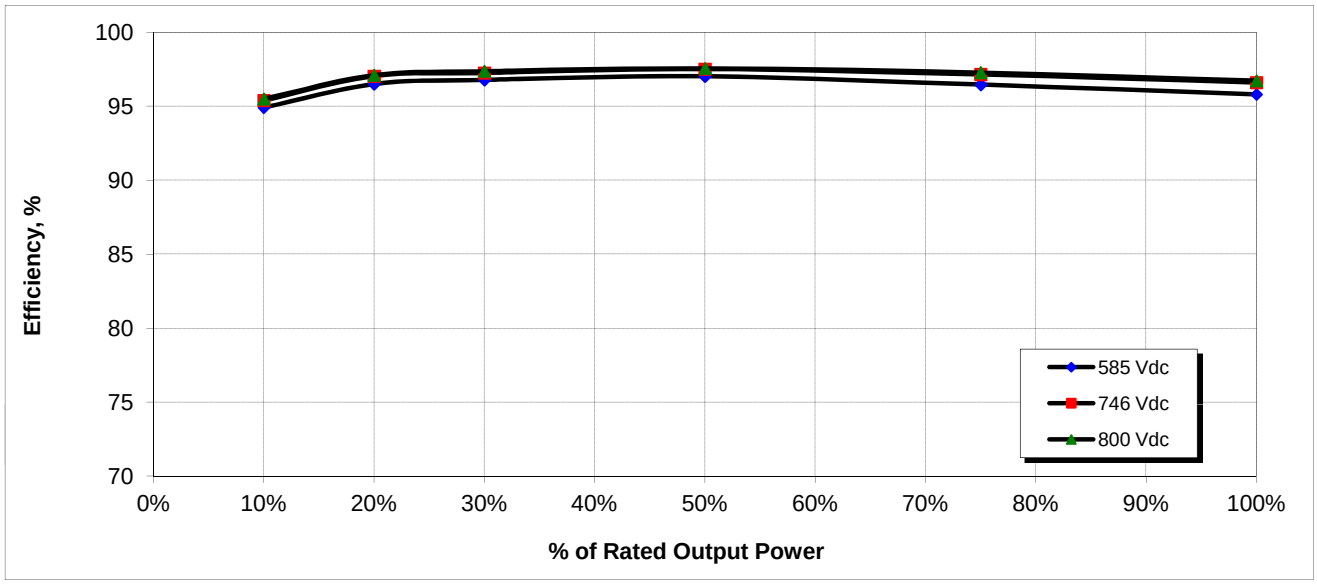
Model #: ULTRA-1500-TL-OUTD-4-US

Rated Maximum Continuous Output Power: 1500.00 kW Night Tare Loss: 430 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	96.50	96.78	97.02	96.46	95.80	96.52
Vnom	746	95.39	97.04	97.25	97.51	97.15	96.60	97.13
Vmax	800	95.50	97.10	97.37	97.57	97.28	96.72	97.24

CEC Efficiency of Inverter and MV TP1 Transformer = 97.0%



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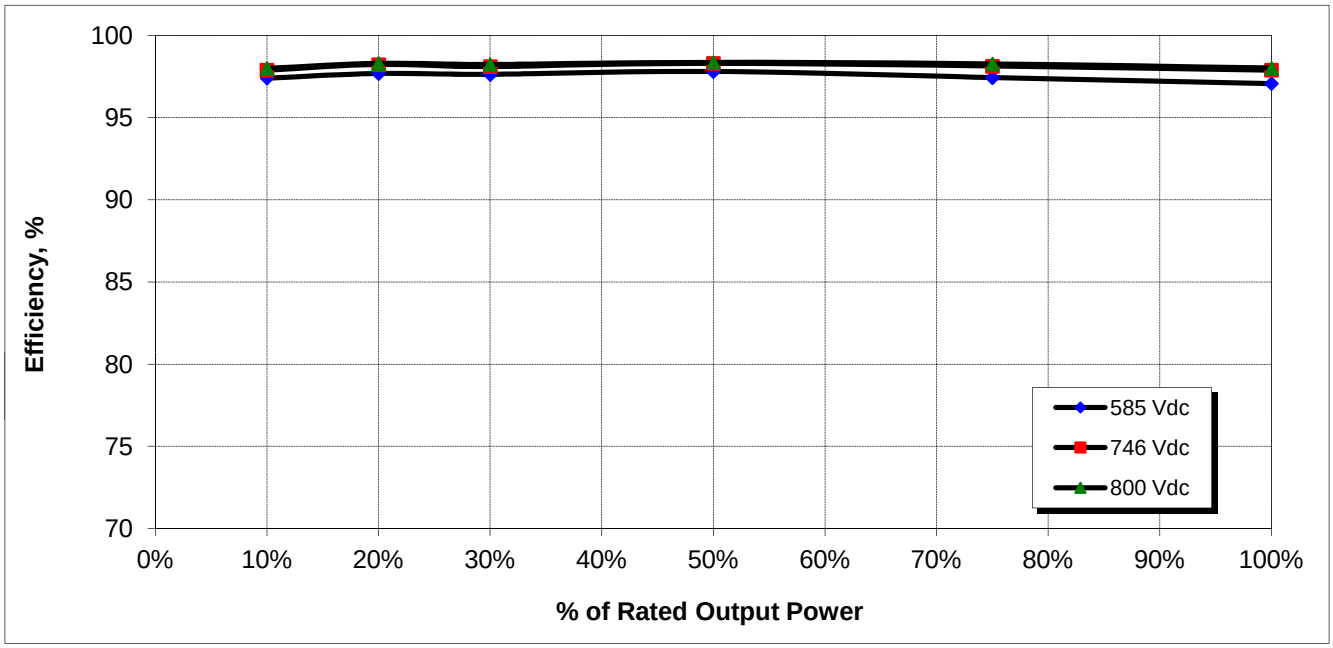
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		150.00	300.00	450.00	750.00	1125.00	1500.00	Wtd
Vmin	585	97.40	97.68	97.63	97.80	97.43	97.07	97.53
Vnom	746	97.89	98.23	98.10	98.30	98.13	97.89	98.15
Vmax	800	97.99	98.29	98.23	98.35	98.26	98.01	98.26

Inverter Efficiency only = 98.0%



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	146614.2	585.4	97.4	146601.6	585.4	97.4	146605.9	586.0	97.4	146597.9	585.7	97.4	146599.7	585.6	97.4
20%	Vmin	277779.8	585.6	97.7	277721.3	585.4	97.7	277757.6	585.5	97.7	277697.5	585.5	97.7	277729.8	585.5	97.7
30%	Vmin	421303.7	585.5	97.6	421320.7	585.7	97.6	421390.8	585.5	97.6	421375.4	585.2	97.6	421356.6	585.2	97.6
50%	Vmin	679093.9	585.2	97.8	678974.7	585.4	97.8	679043.3	585.6	97.8	679060.1	585.6	97.8	679114.0	585.7	97.8
75%	Vmin	1064775.0	585.3	97.4	1064679.9	585.2	97.4	1064734.5	585.7	97.4	1064691.5	585.6	97.4	1064801.9	585.7	97.4
100%	Vmin	1436807.9	585.7	97.1	1436764.9	585.1	97.1	1436937.9	585.5	97.1	1436820.1	585.5	97.1	1436843.7	585.4	97.1
10%	Vnom	147257.0	745.3	97.9	147265.4	745.3	97.9	147263.4	744.8	97.9	147250.0	744.3	97.9	147195.3	745.1	97.9
20%	Vnom	325612.3	744.6	98.2	325547.4	745.1	98.2	325676.0	745.2	98.3	325659.4	744.7	98.2	325641.9	744.8	98.2
30%	Vnom	421963.3	744.6	98.1	421895.4	745.8	98.1	421916.8	745.6	98.1	421912.4	745.2	98.1	421897.4	745.2	98.1
50%	Vnom	676312.0	744.7	98.3	676369.8	744.2	98.3	676489.0	745.0	98.3	676320.9	744.6	98.3	676332.2	744.5	98.3
75%	Vnom	1053421.0	745.2	98.1	1053341.7	745.5	98.1	1053420.7	745.0	98.1	1053461.5	745.1	98.1	1053256.7	744.7	98.1
100%	Vnom	1441019.0	744.8	97.9	1441084.7	744.9	97.9	1441138.3	744.4	97.9	1441067.5	744.5	97.9	1440847.0	744.1	97.9
10%	Vmax	147393.9	800.9	98.0	147435.8	800.9	98.0	147395.0	801.2	98.0	147369.9	801.2	98.0	147436.1	801.6	98.0
20%	Vmax	325911.3	800.4	98.3	325862.7	800.5	98.3	325864.4	799.4	98.3	325919.9	800.5	98.3	325879.9	801.3	98.3
30%	Vmax	422307.7	800.3	98.2	422222.4	800.9	98.2	422227.7	800.4	98.2	422231.1	800.9	98.2	422200.7	800.8	98.2
50%	Vmax	676464.8	799.7	98.4	676298.4	799.9	98.4	676462.9	801.0	98.4	676342.0	800.6	98.4	676444.2	800.1	98.4
75%	Vmax	1053571.9	801.0	98.3	1053585.4	800.9	98.3	1053656.4	800.6	98.3	1053691.7	800.5	98.3	1053689.9	801.4	98.3
100%	Vmax	1442493.5	797.5	98.0	1442628.7	797.3	98.0	1442762.4	797.0	98.0	1442640.8	797.1	98.0	1442692.5	796.8	98.0

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	146599.3	585.5	97.4	146579.9	585.3	97.4									
20%	Vmin	277747.3	585.5	97.7	277760.8	585.1	97.7									
30%	Vmin	421341.2	585.5	97.6	421361.2	585.4	97.6									
50%	Vmin	679019.9	585.4	97.8	679077.9	585.4	97.8									
75%	Vmin	1064621.6	585.3	97.4	1064645.2	585.7	97.4									
100%	Vmin	1436691.7	585.1	97.1	1436885.6	585.1	97.1									
10%	Vnom	147292.4	745.5	97.9	147270.7	744.7	97.9									
20%	Vnom	325600.7	744.7	98.2	325505.7	744.7	98.2									
30%	Vnom	421872.8	745.8	98.1	421886.6	745.5	98.1									
50%	Vnom	676482.7	744.4	98.3	676360.9	745.4	98.3									
75%	Vnom	1053392.9	744.9	98.1	1053638.9	745.2	98.1									
100%	Vnom	1441108.0	744.3	97.9	1440536.0	743.9	97.9									
10%	Vmax	147374.1	802.0	98.0	147354.6	801.9	98.0									
20%	Vmax	325867.8	801.5	98.3	325863.8	801.2	98.3									
30%	Vmax	422102.1	800.1	98.2	422254.8	800.9	98.2									
50%	Vmax	676315.9	800.2	98.4	676384.0	799.8	98.4									
75%	Vmax	1053586.9	801.8	98.3	1053595.5	801.5	98.3									
100%	Vmax	1442548.7	795.4	98.0	1442642.7	795.3	98.0									