Manufacturer: Power-One, Inc.

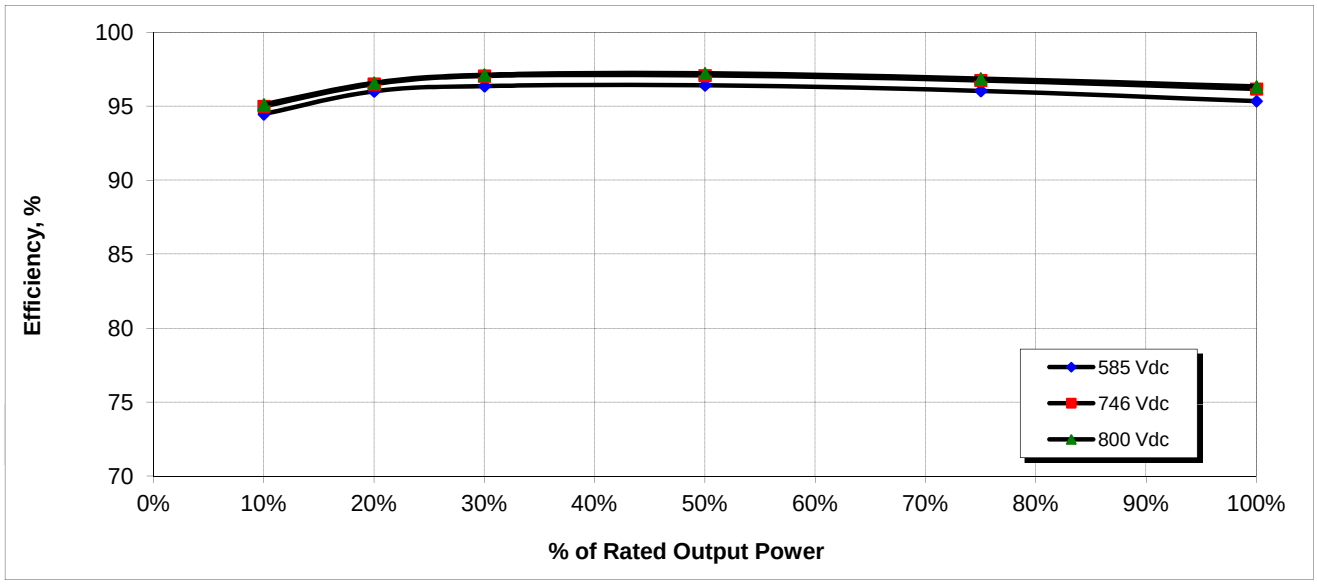
Model #: ULTRA-750-TL-OUTD-3-US-690

Rated Maximum Continuous Output Power: 780.00 kW Night Tare Loss: 347 W

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

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		78.00	156.00	234.00	390.00	585.00	780.00	Wtd
Vmin	585	94.47	96.01	96.36	96.42	96.05	95.35	96.06
Vnom	746	95.00	96.50	97.04	97.08	96.75	96.17	96.74
Vmax	800	95.13	96.59	97.13	97.23	96.87	96.33	96.87

CEC Efficiency of Inverter and MV TP1 Transformer = 96.5%



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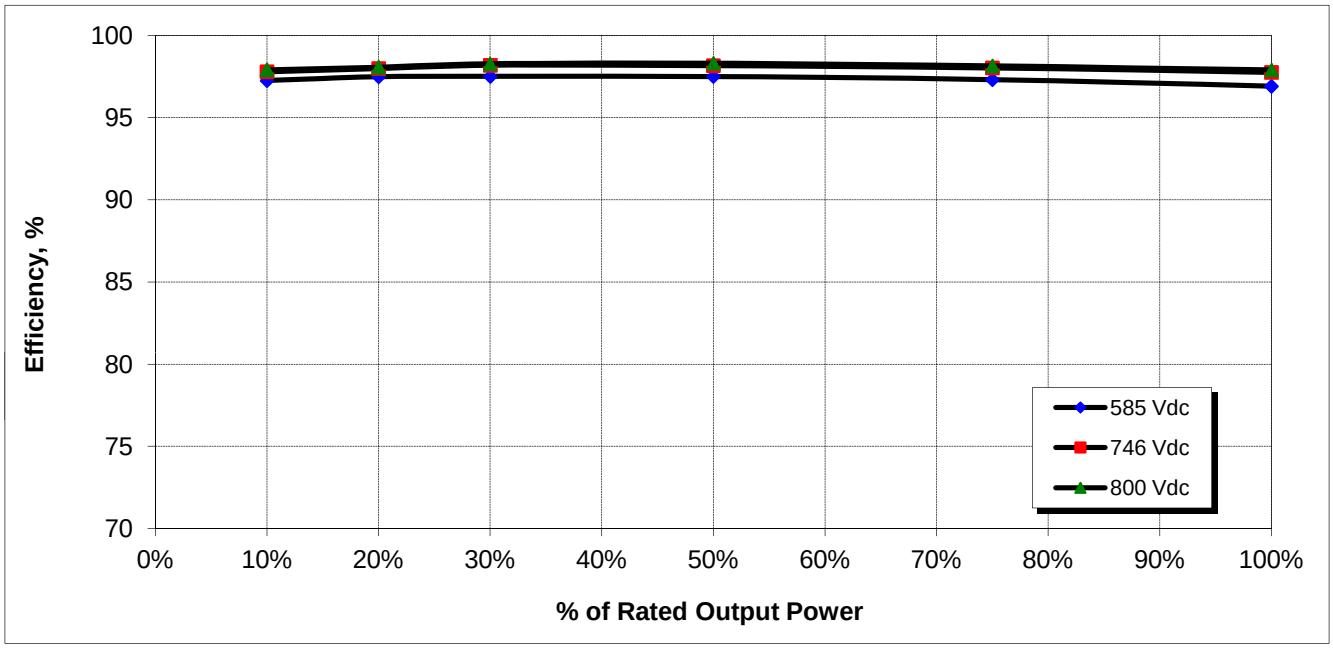
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		78.00	156.00	234.00	390.00	585.00	780.00	Wtd
Vmin	585	97.25	97.48	97.50	97.49	97.31	96.91	97.36
Vnom	746	97.79	97.98	98.19	98.16	98.03	97.75	98.05
Vmax	800	97.92	98.07	98.28	98.31	98.15	97.91	98.17

Inverter Efficiency only = 98.0%



780kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		78.00	156.00	234.00	390.00	585.00	780.00	Wtd
Vmin	585	97.15	98.49	98.83	98.90	98.70	98.39	98.70
Vnom	746	97.15	98.49	98.83	98.90	98.70	98.39	98.70
Vmax	800	97.15	98.49	98.83	98.90	98.70	98.39	98.70

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	77012.0	585.6	97.2	77039.4	585.6	97.3	77023.3	585.7	97.3	77014.2	585.7	97.2	77025.0	585.7	97.2
20%	Vmin	170136.6	585.6	97.5	170134.2	585.4	97.5	170121.8	585.6	97.5	170117.4	585.2	97.5	170136.1	585.4	97.5
30%	Vmin	247540.6	585.0	97.5	247414.8	585.3	97.5	247513.1	585.5	97.5	247565.2	585.3	97.5	247532.5	585.2	97.5
50%	Vmin	373066.6	585.7	97.5	373161.9	585.5	97.5	373072.8	585.4	97.5	373182.2	585.6	97.5	373134.5	585.5	97.5
75%	Vmin	549875.4	585.3	97.3	549868.8	585.4	97.3	549998.5	585.3	97.3	549848.3	585.4	97.3	550230.9	585.5	97.3
100%	Vmin	743334.6	585.4	96.9	743239.4	585.6	96.9	743002.4	585.6	96.9	742918.2	585.3	96.9	742924.5	585.4	96.9
10%	Vnom	77666.3	745.2	97.8	77684.5	745.1	97.8	77671.6	744.9	97.8	77643.5	744.8	97.8	77638.2	744.9	97.8
20%	Vnom	167367.3	745.3	98.0	167382.9	744.9	98.0	167396.1	744.7	98.0	167347.3	744.9	98.0	167396.1	745.4	98.0
30%	Vnom	243925.3	745.2	98.2	243985.9	745.3	98.2	243931.4	745.5	98.2	243892.6	745.4	98.2	243986.1	745.4	98.2
50%	Vnom	354247.7	745.1	98.2	354251.4	745.1	98.2	354148.1	744.6	98.2	354199.2	744.8	98.2	354136.3	745.8	98.2
75%	Vnom	552635.0	745.3	98.0	552607.8	745.0	98.0	552792.6	745.5	98.0	552736.7	745.3	98.0	552699.2	744.6	98.0
100%	Vnom	745675.4	745.1	97.7	745753.7	745.1	97.8	745713.0	745.0	97.7	745676.9	745.2	97.7	745692.8	745.5	97.7
10%	Vmax	77731.2	801.5	97.9	77735.1	801.5	97.9	77744.4	801.4	97.9	77747.6	801.5	97.9	77748.3	801.4	97.9
20%	Vmax	167515.7	801.0	98.1	167508.8	801.1	98.1	167495.5	801.1	98.1	167495.5	801.5	98.1	167506.3	802.1	98.1
30%	Vmax	245013.3	801.0	98.3	245122.5	801.4	98.3	244989.7	801.1	98.3	244982.8	801.1	98.3	244800.7	800.2	98.3
50%	Vmax	354676.0	799.8	98.3	354592.0	799.8	98.3	354718.6	800.2	98.3	354772.6	801.0	98.3	354674.4	800.5	98.3
75%	Vmax	553068.7	800.3	98.2	553082.9	801.0	98.2	553111.0	800.7	98.2	552963.6	800.6	98.1	553081.0	801.3	98.1
100%	Vmax	746582.7	796.9	97.9	746702.6	800.9	97.9	746733.2	800.9	97.9	746793.4	801.3	97.9	746616.0	801.4	97.9

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	77019.6	585.4	97.3	77017.2	585.5	97.2									
20%	Vmin	170109.1	585.5	97.5	170116.7	585.2	97.5									
30%	Vmin	247357.2	585.8	97.5	247458.3	585.9	97.5									
50%	Vmin	373199.0	585.5	97.5	373001.7	585.4	97.5									
75%	Vmin	550158.2	585.4	97.3	550026.9	585.7	97.3									
100%	Vmin	742941.9	585.4	96.9	742935.4	585.5	96.9									
10%	Vnom	77656.4	744.9	97.8	77644.7	744.7	97.8									
20%	Vnom	167362.9	745.5	98.0	167385.6	745.3	98.0									
30%	Vnom	243863.7	745.6	98.2	244000.8	745.3	98.2									
50%	Vnom	354269.2	745.8	98.2	354265.5	745.2	98.2									
75%	Vnom	552752.9	745.4	98.0	553155.9	745.5	98.0									
100%	Vnom	745737.3	745.8	97.8	745760.6	745.5	97.8									
10%	Vmax	77755.5	801.2	97.9	77758.4	801.0	97.9									
20%	Vmax	167498.4	801.6	98.1	167531.9	801.4	98.1									
30%	Vmax	244714.3	800.7	98.3	244858.1	800.8	98.3									
50%	Vmax	354480.1	800.1	98.3	354646.4	800.6	98.3									
75%	Vmax	553218.6	801.5	98.1	553096.5	801.1	98.2									
100%	Vmax	746641.1	801.9	97.9	746571.4	801.7	97.9									