Manufacturer: Power-One, Inc.

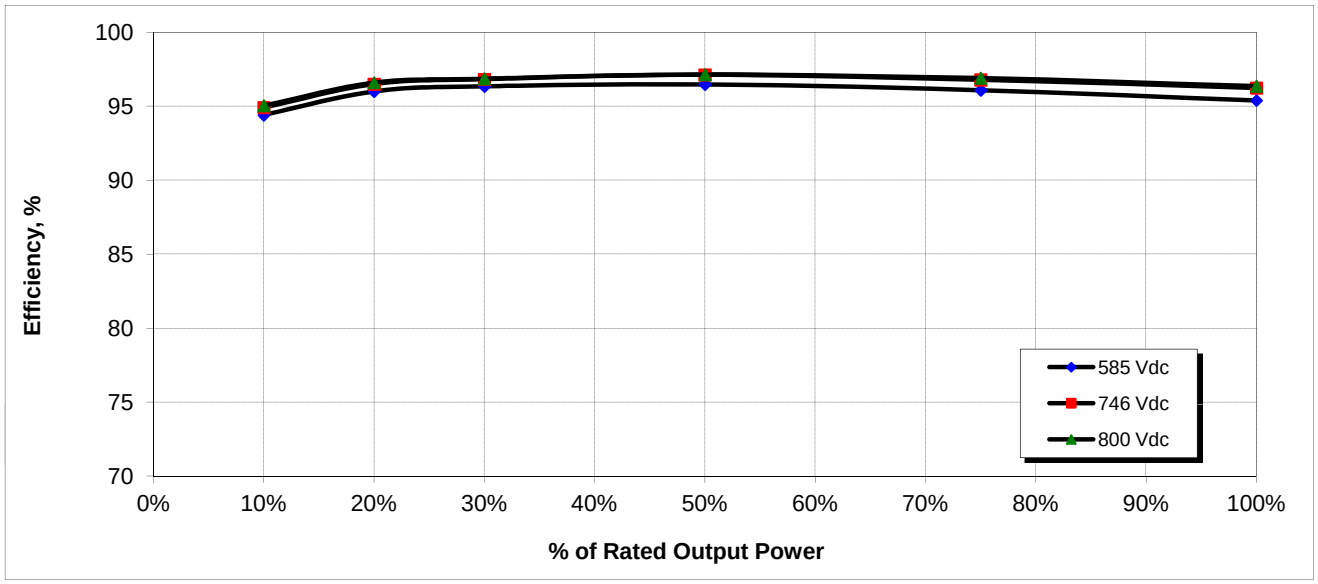
Model #: ULTRA-750-TL-OUTD-4-US-690

Rated Maximum Continuous Output Power: 750.00 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)		75.00	150.00	225.00	375.00	562.50	750.00	Wtd
Vmin	585	94.41	96.00	96.35	96.48	96.09	95.39	96.10
Vnom	746	94.92	96.50	96.82	97.12	96.78	96.23	96.74
Vmax	800	95.04	96.59	96.86	97.14	96.90	96.36	96.83

CEC Efficiency of Inverter and MV TP1 Transformer = 96.5%



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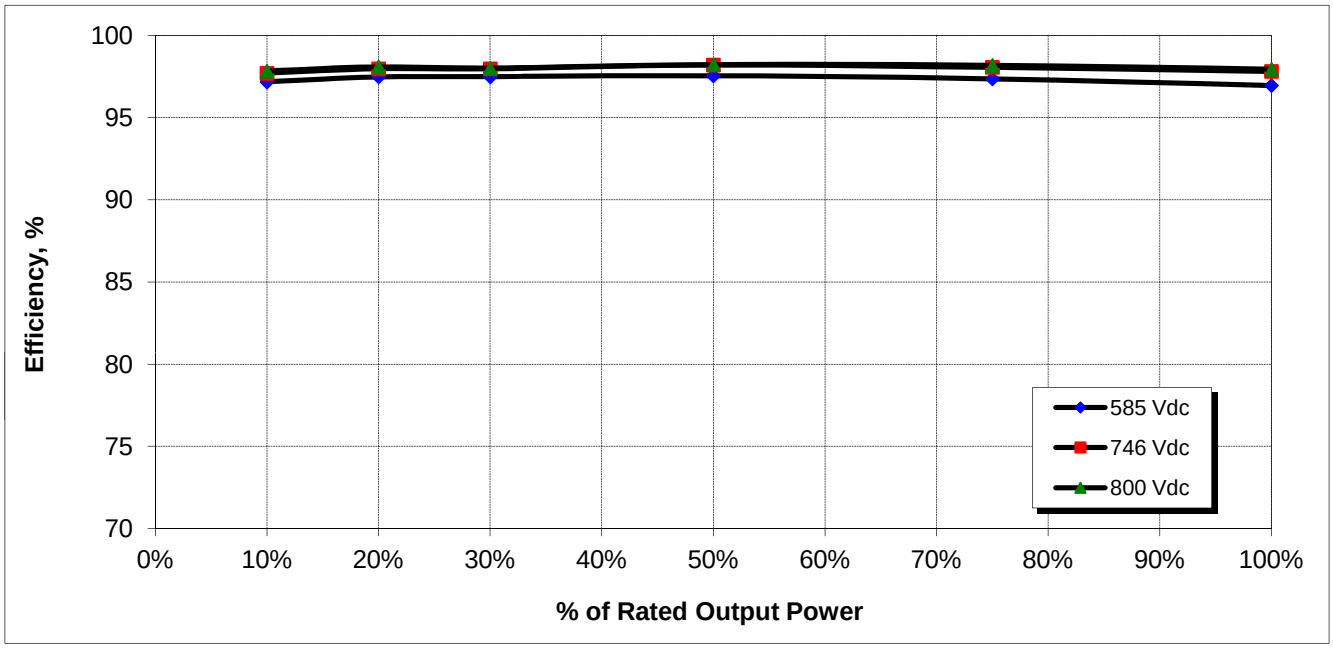
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		75.00	150.00	225.00	375.00	562.50	750.00	Wtd
Vmin	585	97.18	97.48	97.49	97.55	97.36	96.95	97.39
Vnom	746	97.70	97.98	97.97	98.20	98.06	97.81	98.05
Vmax	800	97.83	98.08	98.01	98.22	98.18	97.94	98.14

Inverter Efficiency only = 98.0%



750kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		75.00	150.00	225.00	375.00	562.50	750.00	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	73051.2	585.7	97.2	73044.8	585.7	97.2	73048.7	585.4	97.2	73067.1	585.4	97.2	73042.8	585.4	97.2
20%	Vmin	162477.3	585.3	97.5	162469.0	585.4	97.5	162478.6	585.6	97.5	162483.3	585.6	97.5	162462.7	585.4	97.5
30%	Vmin	239343.2	585.6	97.5	239462.1	585.3	97.5	239262.0	585.5	97.5	239290.1	585.4	97.5	239335.1	585.6	97.5
50%	Vmin	341661.6	585.4	97.5	341750.0	585.6	97.6	341713.4	585.6	97.6	341751.1	585.5	97.5	341643.2	585.5	97.5
75%	Vmin	527085.1	585.5	97.4	527031.4	585.3	97.4	527231.7	585.5	97.4	527162.0	585.4	97.4	527049.2	585.5	97.4
100%	Vmin	718055.7	585.2	97.0	717922.9	585.4	97.0	717911.9	585.3	97.0	717995.9	585.7	97.0	717920.9	585.5	97.0
10%	Vnom	73646.0	745.2	97.7	73637.6	744.4	97.7	73646.9	744.0	97.7	73659.0	744.9	97.7	73704.0	744.6	97.7
20%	Vnom	163382.2	745.6	98.0	163410.1	745.3	98.0	163379.9	745.1	98.0	163381.0	745.0	98.0	163389.6	745.2	98.0
30%	Vnom	235795.7	745.6	98.0	235750.3	745.6	98.0	235825.5	745.0	98.0	235813.6	745.3	98.0	235700.2	745.7	98.0
50%	Vnom	338779.0	745.1	98.2	338802.5	744.7	98.2	338768.2	745.6	98.2	338940.0	745.7	98.2	338844.0	745.3	98.2
75%	Vnom	529783.5	744.9	98.1	529694.0	745.2	98.1	529761.2	745.2	98.1	529833.0	745.3	98.1	529882.9	745.2	98.1
100%	Vnom	720948.1	745.5	97.8	721029.3	745.1	97.8	720753.2	744.9	97.8	720743.1	745.4	97.8	720786.0	745.3	97.8
10%	Vmax	73762.2	800.5	97.8	73787.7	800.5	97.9	73745.3	800.8	97.8	73745.7	800.9	97.8	73743.3	800.8	97.8
20%	Vmax	163521.7	801.0	98.1	163510.0	801.4	98.1	163538.9	800.9	98.1	163570.7	802.0	98.1	163533.5	801.7	98.1
30%	Vmax	237124.2	800.8	98.0	237216.0	801.7	98.0	237256.7	801.9	98.0	237291.3	800.9	98.0	237305.0	801.5	98.0
50%	Vmax	343479.2	800.7	98.2	343648.8	800.8	98.2	343667.8	801.4	98.2	343580.4	801.4	98.2	343581.0	801.5	98.2
75%	Vmax	530288.6	800.4	98.2	531053.1	801.3	98.2	530299.2	800.8	98.2	530199.7	800.3	98.2	530259.7	800.7	98.2
100%	Vmax	721632.7	801.3	98.0	721566.2	802.3	97.9	721591.3	802.6	97.9	721656.3	802.3	98.0	721515.3	801.1	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	73067.3	585.6	97.2	73051.1	585.6	97.2									
20%	Vmin	162445.1	585.3	97.5	162488.0	585.2	97.5									
30%	Vmin	239233.2	585.7	97.5	239437.4	585.5	97.5									
50%	Vmin	341818.5	585.4	97.6	341736.7	585.3	97.6									
75%	Vmin	527124.8	585.8	97.4	527164.1	585.4	97.4									
100%	Vmin	717854.7	585.3	96.9	717916.7	585.5	96.9									
10%	Vnom	73699.5	745.4	97.7	73705.4	745.4	97.7									
20%	Vnom	163387.3	744.2	98.0	163383.5	744.6	98.0									
30%	Vnom	235855.8	745.7	98.0	235837.8	745.1	98.0									
50%	Vnom	338602.6	745.1	98.2	338751.9	745.6	98.2									
75%	Vnom	529613.8	745.0	98.1	529957.9	745.3	98.1									
100%	Vnom	720684.4	744.8	97.8	720816.9	745.1	97.8									
10%	Vmax	73756.5	800.5	97.8	73775.9	800.3	97.8									
20%	Vmax	163545.7	800.7	98.1	163546.1	801.0	98.1									
30%	Vmax	237220.9	800.5	98.0	237292.0	800.2	98.0									
50%	Vmax	343468.8	801.8	98.2	343492.2	801.5	98.2									
75%	Vmax	530258.6	801.1	98.2	530180.1	800.6	98.2									
100%	Vmax	721579.5	801.4	97.9	721546.1	800.8	97.9									