Manufacturer: Power-One, Inc.

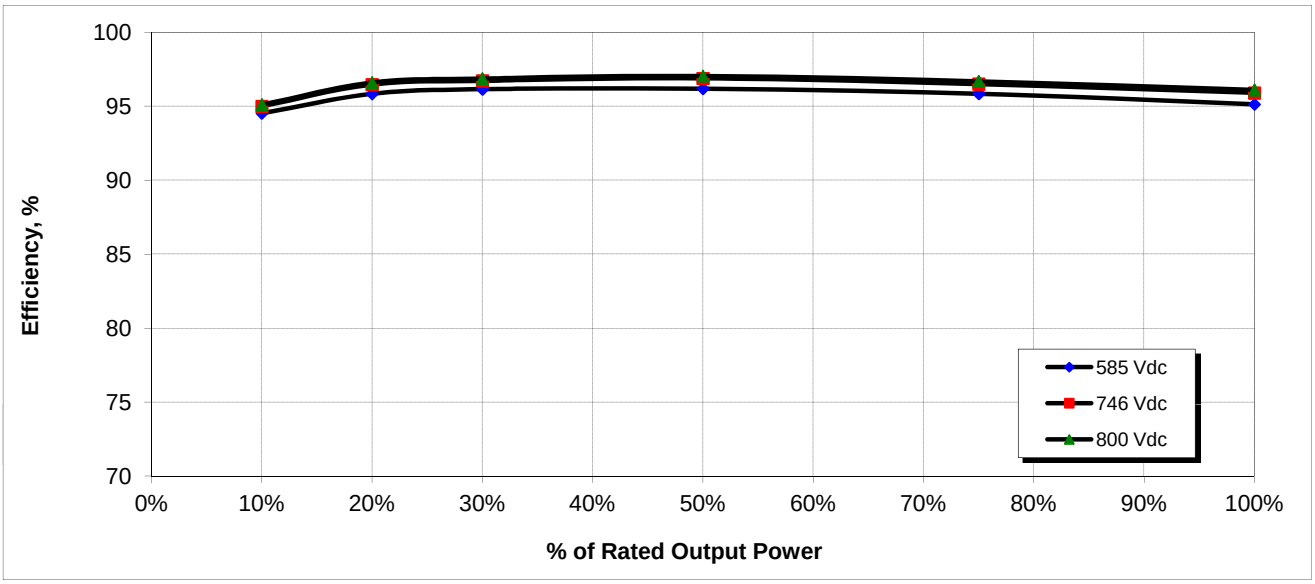
Model #: ULTRA-750-TL-OUTD-2-US-690

Rated Maximum Continuous Output Power: 750.00 kW Night Tare Loss: 302 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	94.53	95.84	96.16	96.19	95.85	95.13	95.87
Vnom	746	94.99	96.46	96.72	96.89	96.50	95.90	96.52
Vmax	800	95.12	96.61	96.87	97.05	96.69	96.11	96.69

CEC Efficiency of Inverter and MV TP1 Transformer = 96.5%



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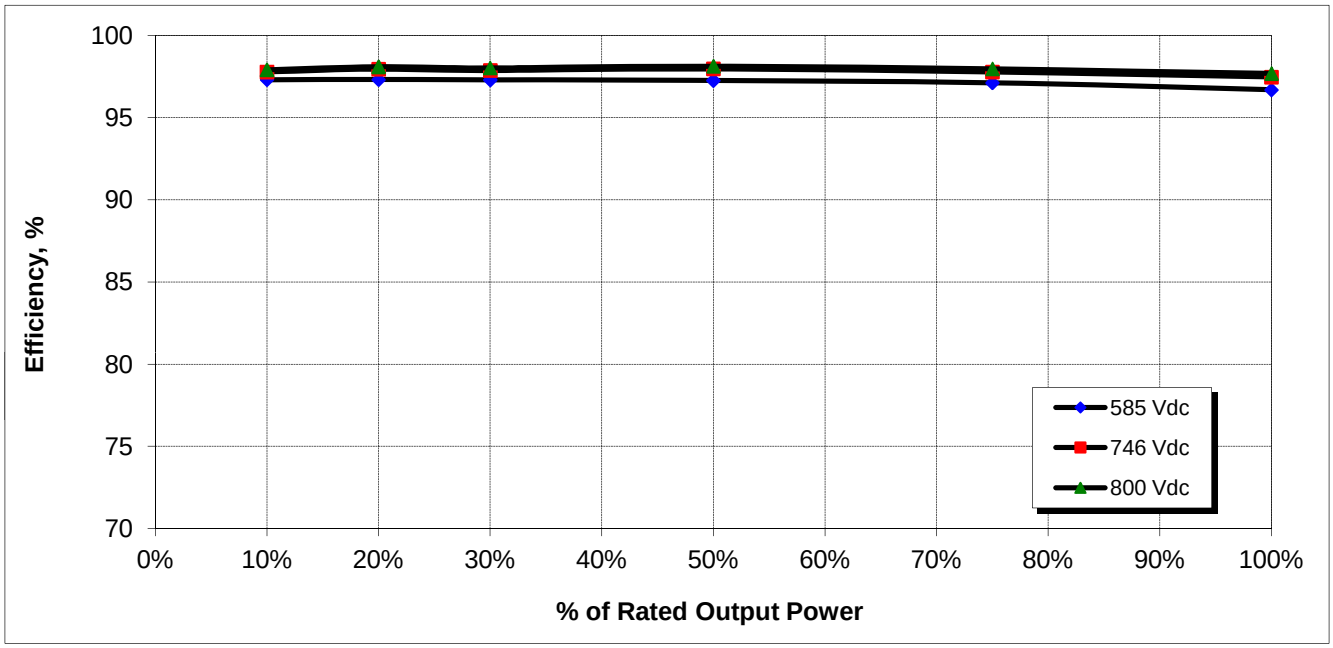
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		75.00	150.00	225.00	375.00	562.50	750.00	Wtd
Vmin	585	97.30	97.31	97.29	97.26	97.11	96.69	97.16
Vnom	746	97.78	97.94	97.86	97.97	97.77	97.46	97.82
Vmax	800	97.91	98.09	98.02	98.13	97.96	97.68	97.99

Inverter Efficiency only = 97.5%



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	70697.2	585.1	97.3	70707.6	585.2	97.3	70703.6	585.3	97.3	70710.4	585.4	97.3	70714.6	585.5	97.3
20%	Vmin	160927.2	585.4	97.3	160929.0	585.4	97.3	160942.5	585.3	97.3	160955.4	585.5	97.3	160964.7	585.5	97.3
30%	Vmin	239822.1	585.4	97.3	239757.6	585.2	97.3	239818.0	585.1	97.3	239829.8	585.2	97.3	239843.3	585.1	97.3
50%	Vmin	339054.1	585.6	97.3	339118.5	585.5	97.3	339080.3	585.5	97.3	339123.4	585.6	97.3	339042.7	585.3	97.3
75%	Vmin	527453.1	585.7	97.1	527483.9	585.8	97.1	527375.2	585.5	97.1	527430.7	585.7	97.1	527382.7	585.8	97.1
100%	Vmin	722202.2	585.5	96.7	722465.4	585.4	96.7	722673.3	585.5	96.7	722611.6	585.6	96.7	722466.5	585.6	96.7
10%	Vnom	71093.7	745.2	97.8	71095.0	745.4	97.8	71106.1	745.5	97.8	71105.1	745.3	97.8	71089.7	745.5	97.8
20%	Vnom	161411.6	745.4	98.0	161410.4	745.2	97.9	161402.7	745.2	97.9	161407.8	744.9	98.0	161391.4	745.8	97.9
30%	Vnom	239755.3	745.5	97.9	240043.1	745.1	97.9	240237.2	745.3	97.9	240271.8	745.4	97.9	240279.4	745.4	97.9
50%	Vnom	339896.1	745.3	98.0	339848.0	745.2	98.0	339849.8	745.5	98.0	339861.7	745.4	98.0	339936.1	745.4	98.0
75%	Vnom	528827.1	745.1	97.8	528872.0	745.5	97.8	528860.1	745.5	97.8	528889.3	745.5	97.8	528896.7	745.4	97.8
100%	Vnom	716812.0	745.8	97.5	716812.6	745.4	97.5	716803.9	745.3	97.5	716861.5	745.3	97.5	716819.2	745.4	97.5
10%	Vmax	71226.3	800.0	97.9	71201.0	800.9	97.9	71206.2	801.5	97.9	71247.1	801.6	97.9	71220.2	802.2	97.9
20%	Vmax	161551.5	801.4	98.1	161533.1	801.6	98.1	161511.2	801.5	98.1	161564.1	802.1	98.1	161527.1	802.6	98.1
30%	Vmax	240272.7	800.4	98.0	240328.4	800.4	98.0	240365.2	800.5	98.0	240485.7	800.3	98.0	240471.7	799.1	98.0
50%	Vmax	340136.6	800.6	98.1	340145.3	800.1	98.1	340095.7	800.1	98.1	340112.5	800.8	98.1	340095.9	801.4	98.1
75%	Vmax	529239.1	800.9	98.0	529272.9	800.4	98.0	529292.0	801.1	98.0	529173.7	801.3	98.0	529232.2	801.8	98.0
100%	Vmax	717529.8	801.2	97.7	717540.7	801.5	97.7	717521.6	801.1	97.7	717507.1	801.3	97.7	717534.1	801.5	97.7

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	70701.5	585.5	97.3	70703.4	585.6	97.3									
20%	Vmin	160963.1	585.4	97.3	160956.5	585.4	97.3									
30%	Vmin	239876.2	585.4	97.3	239867.8	585.8	97.3									
50%	Vmin	339074.5	585.1	97.3	339095.4	585.3	97.3									
75%	Vmin	527414.6	585.7	97.1	527492.9	585.5	97.1									
100%	Vmin	719659.6	585.7	96.7	716880.8	585.8	96.7									
10%	Vnom	71076.4	745.6	97.8	71114.8	745.8	97.8									
20%	Vnom	161424.9	745.8	98.0	161413.9	745.8	97.9									
30%	Vnom	240254.1	745.4	97.9	240261.5	745.2	97.9									
50%	Vnom	339824.1	745.6	98.0	339914.1	745.5	98.0									
75%	Vnom	528952.3	745.3	97.8	528838.3	745.5	97.8									
100%	Vnom	716777.7	745.4	97.5	716887.8	745.4	97.5									
10%	Vmax	71199.0	802.4	97.9	71203.3	802.5	97.9									
20%	Vmax	161508.5	803.3	98.1	161520.2	802.9	98.1									
30%	Vmax	240563.1	799.3	98.0	240564.0	799.2	98.0									
50%	Vmax	340103.7	800.9	98.1	340130.1	801.1	98.1									
75%	Vmax	529265.6	801.9	98.0	529222.1	801.7	98.0									
100%	Vmax	717509.8	801.9	97.7	717400.7	800.4	97.7									