Manufacturer: Power-One, Inc.

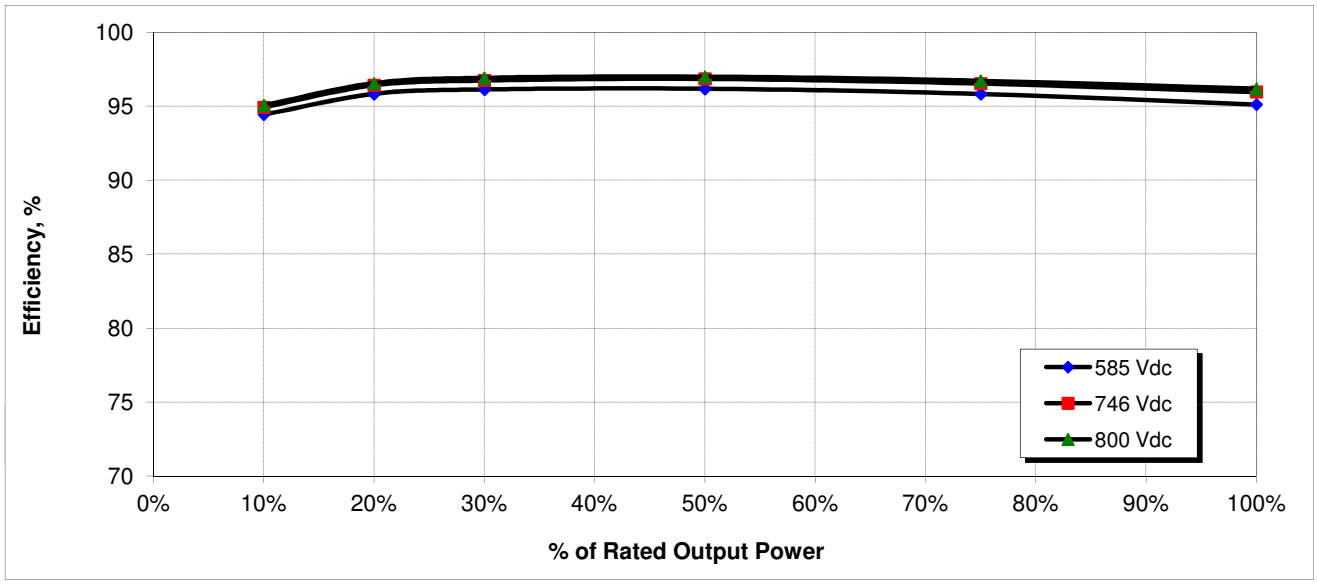
Model #: ULTRA-750-TL-OUTD-1-US-690-x-y-z

Rated Maximum Continuous Output Power: 780.00 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)		78.00	156.00	234.00	390.00	585.00	780.00	Wtd
Vmin	585	94.45	95.83	96.13	96.17	95.82	95.11	95.84
Vnom	746	94.94	96.42	96.74	96.85	96.54	95.97	96.53
Vmax	800	95.06	96.55	96.91	96.99	96.71	96.18	96.69

CEC Efficiency of Inverter and MV TP1 Transformer = 96.5%



Manufacturer: Power-One, Inc.

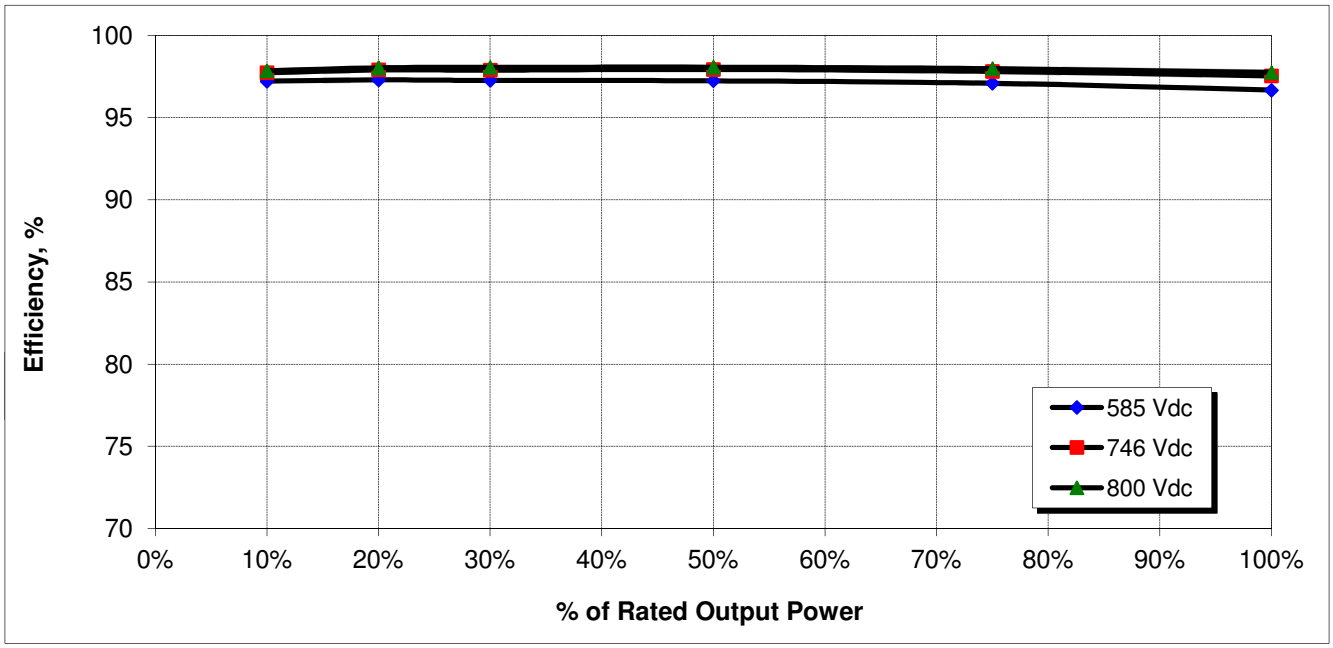
Model #: ULTRA-750-TL-OUTD-1-US-690-x-y-z

Rated Maximum Continuous Output Power: 780.0 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)		78.00	156.00	234.00	390.00	585.00	780.00	Wtd
Vmin	585	97.22	97.30	97.26	97.24	97.09	96.67	97.14
Vnom	746	97.72	97.90	97.89	97.93	97.81	97.54	97.83
Vmax	800	97.85	98.03	98.06	98.07	97.99	97.75	98.00

Inverter Efficiency only = 97.5%



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	77742.9	585.5	97.2	77740.5	585.5	97.2	77740.7	585.3	97.2	77742.3	585.1	97.2	77760.7	585.1	97.2
20%	Vmin	170685.1	585.7	97.3	170696.3	585.6	97.3	170678.1	585.5	97.3	170699.9	585.2	97.3	170685.1	585.1	97.3
30%	Vmin	215318.3	585.0	97.3	215321.5	585.5	97.3	215313.8	585.7	97.3	215306.7	585.6	97.3	215311.7	585.4	97.3
50%	Vmin	428214.0	585.4	97.2	428215.8	585.5	97.2	428198.5	585.5	97.2	428192.3	585.5	97.2	428209.3	585.7	97.2
75%	Vmin	546334.2	585.2	97.1	546345.6	585.1	97.1	546316.7	585.0	97.1	546364.3	585.2	97.1	546300.2	585.1	97.1
100%	Vmin	741423.0	585.3	96.7	741416.4	585.2	96.7	741453.7	585.3	96.7	741461.2	585.6	96.7	741432.2	585.7	96.7
10%	Vnom	77266.5	745.5	97.7	77278.8	745.3	97.7	77255.7	745.1	97.7	77274.9	745.3	97.7	77266.2	745.3	97.7
20%	Vnom	170253.6	745.1	97.9	170252.9	745.2	97.9	170248.6	745.8	97.9	170251.9	745.6	97.9	170245.0	745.6	97.9
30%	Vnom	214986.0	745.2	97.9	214971.4	745.5	97.9	215004.1	745.7	97.9	214987.3	745.2	97.9	214981.9	745.2	97.9
50%	Vnom	428788.3	745.5	97.9	428765.8	745.5	97.9	428779.9	745.5	97.9	428801.1	745.6	97.9	428789.1	745.6	97.9
75%	Vnom	546733.7	745.2	97.8	546700.0	745.1	97.8	546763.4	745.3	97.8	546754.9	745.2	97.8	546747.5	745.5	97.8
100%	Vnom	741707.0	745.6	97.5	741680.2	745.4	97.5	741652.9	745.1	97.5	741723.7	745.1	97.5	741685.7	745.0	97.5
10%	Vmax	77211.2	800.5	97.8	77212.0	800.7	97.8	77206.6	800.8	97.9	77222.5	801.2	97.9	77202.5	800.6	97.9
20%	Vmax	170341.1	800.8	98.0	170320.0	800.7	98.0	170339.6	801.3	98.0	170354.0	801.1	98.0	170353.2	801.0	98.0
30%	Vmax	215216.7	801.7	98.1	215204.3	801.2	98.1	215204.4	801.1	98.1	215231.1	801.2	98.1	215211.2	801.3	98.1
50%	Vmax	428660.6	801.0	98.1	428703.2	801.1	98.1	428675.1	800.7	98.1	428658.0	800.0	98.1	428624.8	800.3	98.1
75%	Vmax	546208.2	800.9	98.0	546260.5	801.3	98.0	546293.8	801.7	98.0	546287.8	801.6	98.0	546298.9	802.0	98.0
100%	Vmax	741831.3	801.1	97.7	741982.9	800.9	97.7	742545.5	800.5	97.8	741569.8	799.8	97.8	741748.8	799.9	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	77749.8	585.3	97.2	77753.3	585.4	97.2									
20%	Vmin	170681.9	585.6	97.3	170691.1	585.8	97.3									
30%	Vmin	215326.7	585.5	97.3	215319.5	585.7	97.3									
50%	Vmin	428179.1	585.7	97.2	428209.8	585.7	97.3									
75%	Vmin	546274.2	585.3	97.1	546304.6	585.7	97.1									
100%	Vmin	741470.0	585.6	96.7	741506.4	585.7	96.7									
10%	Vnom	77269.6	745.5	97.7	77256.0	745.3	97.7									
20%	Vnom	170224.6	745.5	97.9	170241.1	745.7	97.9									
30%	Vnom	214987.0	745.4	97.9	215001.5	745.4	97.9									
50%	Vnom	428803.1	745.2	97.9	428801.8	745.2	97.9									
75%	Vnom	546704.2	745.3	97.8	546630.7	745.1	97.8									
100%	Vnom	741699.3	745.1	97.5	741693.0	745.3	97.5									
10%	Vmax	77209.6	800.6	97.8	77216.1	800.2	97.9									
20%	Vmax	170332.2	801.2	98.0	170326.2	801.7	98.0									
30%	Vmax	215213.2	801.3	98.1	215224.7	801.1	98.1									
50%	Vmax	428699.3	802.3	98.1	428639.9	802.5	98.1									
75%	Vmax	546299.3	801.7	98.0	546342.7	801.9	98.0									
100%	Vmax	741788.2	799.8	97.8	741831.5	800.0	97.8									