Manufacturer: JEMA Energy S.A.

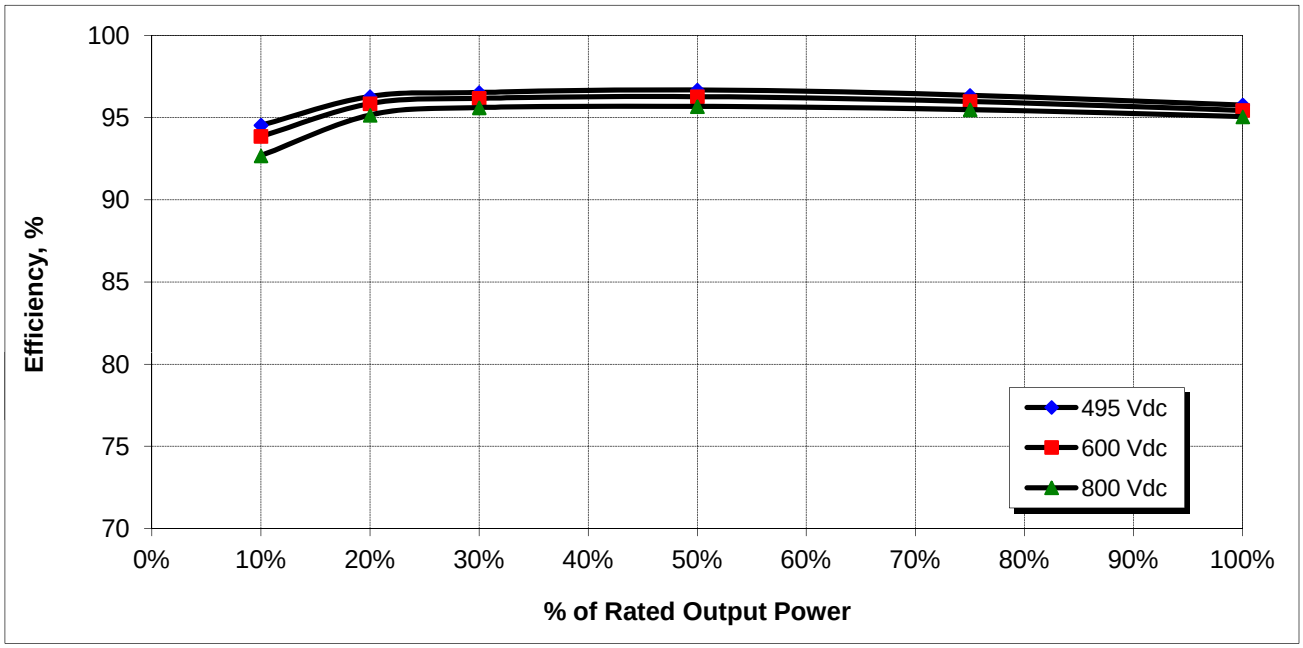
Model #: IF500TL-UL.OUTDOOR

Rated Maximum Continuous Output Power: 500.00 kW Night Tare Loss: 33 W

Vmin: 495 Vdc Vnom: 600 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	495	94.5	96.3	96.5	96.7	96.4	95.8	96.3
Vnom	600	93.9	95.9	96.2	96.3	96.0	95.4	96.0
Vmax	800	92.7	95.1	95.6	95.7	95.5	95.0	95.4

CEC Efficiency of Inverter and MV TP1 Transformer = 96.0%



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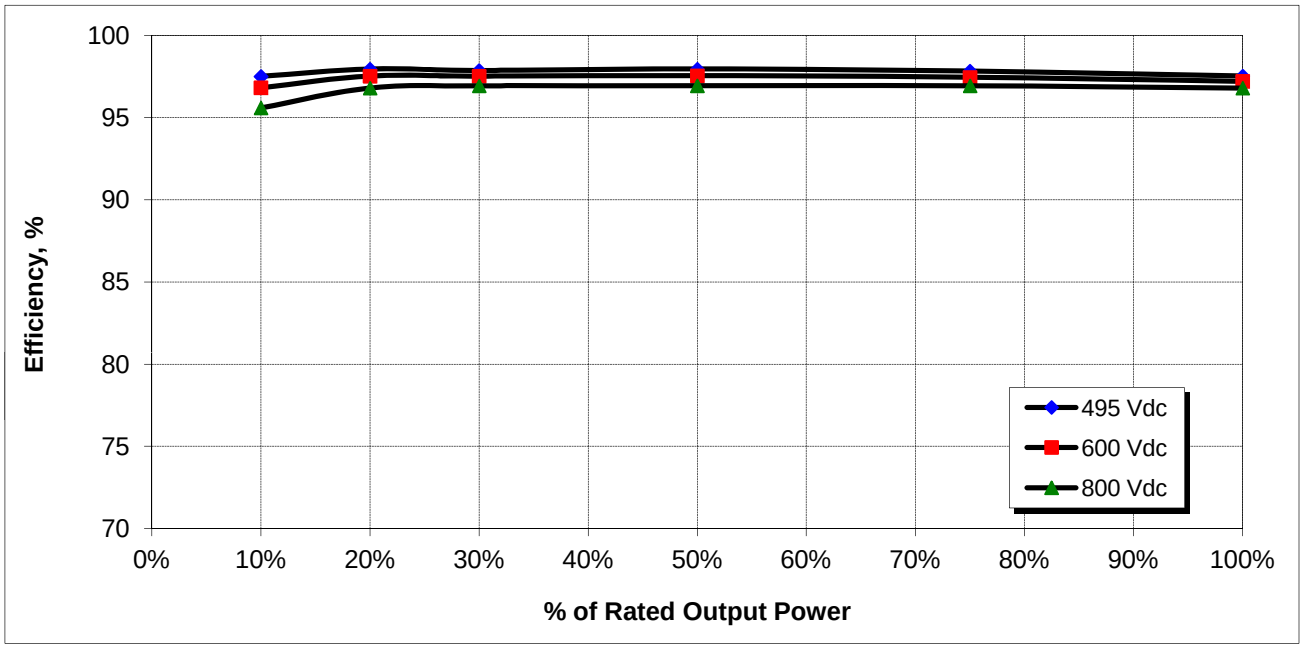
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	495	97.5	98.0	97.9	98.0	97.8	97.5	97.8
Vnom	600	96.8	97.5	97.5	97.5	97.5	97.2	97.4
Vmax	800	95.6	96.8	96.9	96.9	96.9	96.8	96.9

Inverter Efficiency only = 97.5%



500kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		50.00	100.00	150.00	250.00	375.00	500.00	Wtd
Vmin	495	96.95	98.29	98.63	98.70	98.50	98.19	98.47
Vnom	600	96.95	98.29	98.63	98.70	98.50	98.19	98.47
Vmax	850	96.95	98.29	98.63	98.70	98.50	98.19	98.47

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	49570.9	495.4	97.5	49553.7	495.4	97.5	49567.1	495.4	97.5	49567.0	495.4	97.5	49551.9	495.5	97.5
20%	Vmin	109390.7	495.6	98.0	109398.7	495.6	98.0	109393.0	495.6	98.0	109373.3	495.6	98.0	109361.0	495.6	98.0
30%	Vmin	161996.0	495.8	97.9	161978.3	495.8	97.9	162047.7	495.8	97.9	162023.7	495.8	97.9	162001.0	495.8	97.9
50%	Vmin	273781.0	495.3	98.0	273802.0	495.2	98.0	273817.0	495.3	98.0	273851.0	495.2	98.0	273837.0	495.3	98.0
75%	Vmin	355125.7	495.7	97.8	355136.3	495.7	97.8	355159.3	495.6	97.8	355107.0	495.6	97.8	355092.0	495.7	97.8
100%	Vmin	479305.0	497.1	97.5	479340.0	497.2	97.5	479341.7	497.1	97.5	479282.3	497.2	97.5	479383.3	497.2	97.5
10%	Vnom	49564.7	599.3	96.8	49569.1	599.6	96.8	49570.4	599.7	96.8	49572.8	599.7	96.8	49566.6	599.7	96.8
20%	Vnom	109309.3	597.9	97.5	109330.3	597.8	97.5	109305.0	597.8	97.5	109301.3	597.9	97.5	109307.0	597.9	97.5
30%	Vnom	161784.7	600.2	97.5	161850.0	600.2	97.5	161851.0	600.2	97.5	161845.0	600.2	97.5	161864.0	600.2	97.5
50%	Vnom	273436.3	600.7	97.5	273460.7	600.7	97.5	273483.7	600.7	97.5	273448.0	600.7	97.5	273478.3	600.7	97.6
75%	Vnom	354386.3	600.9	97.4	354388.0	600.9	97.4	354412.7	601.0	97.4	354406.3	601.0	97.5	354395.7	601.0	97.5
100%	Vnom	477819.3	602.4	97.2	477783.3	602.4	97.2	477787.3	602.5	97.2	477768.3	602.5	97.2	477728.0	602.5	97.2
10%	Vmax	49430.9	799.9	95.6	49429.4	799.8	95.6	49426.5	799.8	95.6	49424.9	799.8	95.6	49429.5	799.8	95.6
20%	Vmax	109629.0	800.0	96.8	109645.0	800.0	96.8	109639.7	800.0	96.8	109636.7	800.0	96.8	109620.0	800.0	96.8
30%	Vmax	161164.7	800.3	96.9	161161.3	800.3	96.9	161175.0	800.2	96.9	161168.0	800.2	96.9	161151.7	800.2	96.9
50%	Vmax	272063.0	800.8	96.9	272069.0	800.8	96.9	272067.7	800.8	96.9	272053.0	800.8	96.9	272049.0	800.8	96.9
75%	Vmax	354825.7	800.2	96.9	354806.7	800.2	96.9	354823.7	800.2	96.9	354818.7	800.1	96.9	354784.0	800.2	96.9
100%	Vmax	477609.7	800.7	96.8	477569.7	800.7	96.8	477588.7	800.7	96.8	477554.7	800.7	96.8	477493.3	800.7	96.8

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	49550.1	495.5	97.5	49564.8	495.5	97.5									
20%	Vmin	109382.0	495.6	98.0	109361.0	495.6	98.0									
30%	Vmin	162043.7	495.9	97.9	162050.0	495.8	97.9									
50%	Vmin	273883.0	495.3	98.0	273854.3	495.3	98.0									
75%	Vmin	355099.3	495.7	97.8	355092.0	495.7	97.8									
100%	Vmin	479335.7	497.2	97.5	479287.7	497.3	97.5									
10%	Vnom	49566.5	599.7	96.8	49569.3	599.7	96.8									
20%	Vnom	109322.7	597.9	97.5	109317.7	597.9	97.5									
30%	Vnom	161842.0	600.2	97.5	161838.7	600.2	97.5									
50%	Vnom	273456.7	600.8	97.5	273477.7	600.8	97.6									
75%	Vnom	354417.3	601.0	97.5	354431.3	601.1	97.5									
100%	Vnom	477710.7	602.5	97.2	477721.0	602.6	97.2									
10%	Vmax	49430.0	799.8	95.6	49430.0	799.8	95.6									
20%	Vmax	109628.7	800.0	96.8	109629.0	800.0	96.8									
30%	Vmax	161158.3	800.2	96.9	161160.3	800.2	96.9									
50%	Vmax	272050.7	800.7	96.9	272058.0	800.7	96.9									
75%	Vmax	354809.7	800.1	96.9	354806.7	800.1	96.9									
100%	Vmax	477505.3	800.7	96.8	477542.3	800.7	96.8									