Manufacturer: JEMA Energy S.A.

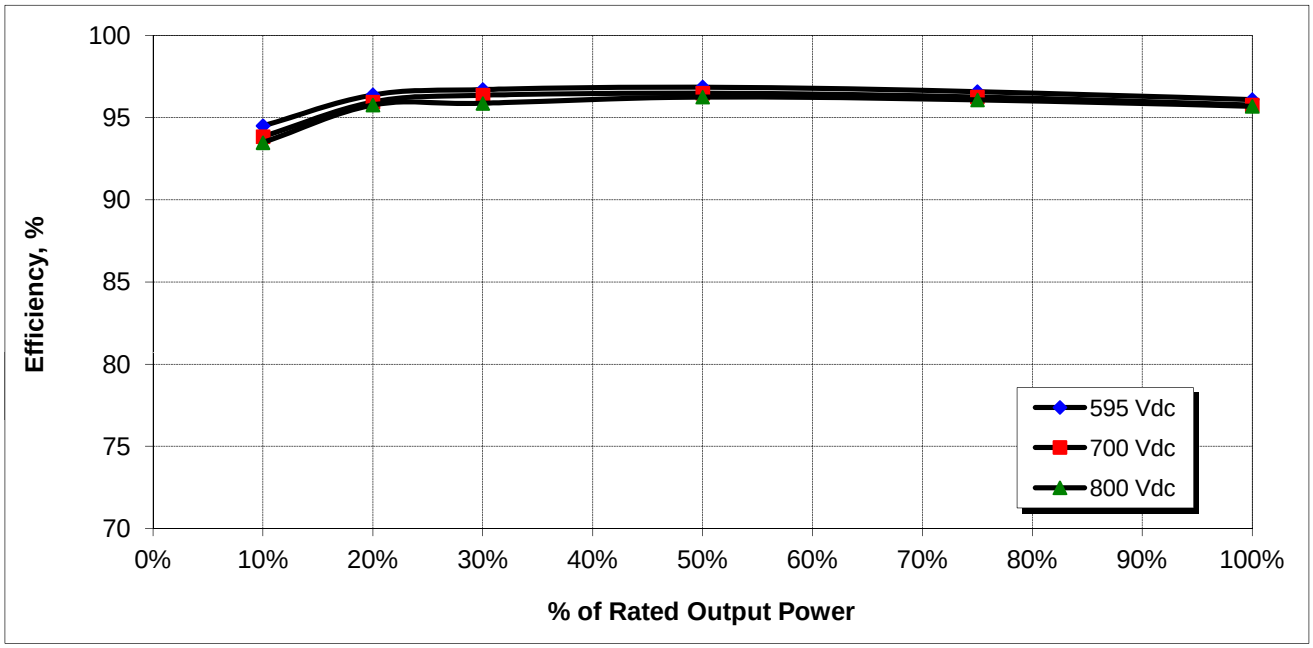
Model #: IF600TL-UL.OUTDOOR

Rated Maximum Continuous Output Power: 600.00 kW Night Tare Loss: 47 W

Vmin: 595 Vdc Vnom: 700 Vdc Vmax: 800 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		60.00	120.00	180.00	300.00	450.00	600.00	Wtd
Vmin	595	94.5	96.4	96.7	96.9	96.6	96.1	96.54
Vnom	700	93.8	95.9	96.4	96.5	96.3	95.8	96.18
Vmax	800	93.5	95.8	95.9	96.2	96.1	95.7	95.95

CEC Efficiency of Inverter and MV TP1 Transformer = 96.0%



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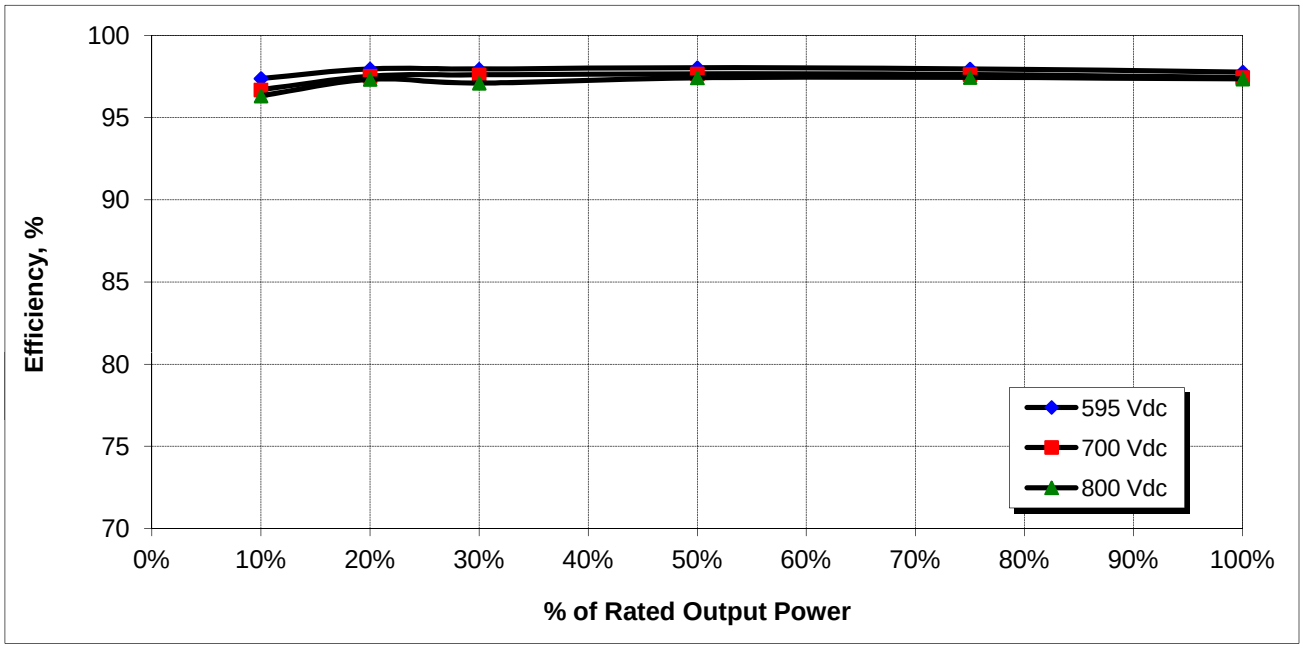
		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		60.00	120.00	180.00	300.00	450.00	600.00	Wtd
Vmin	595	97.4	98.0	98.0	98.0	98.0	97.8	97.94
Vnom	700	96.7	97.5	97.6	97.7	97.6	97.4	97.58
Vmax	800	96.3	97.3	97.1	97.4	97.4	97.4	97.34

Inverter Efficiency only = 97.5%



600kVA TP1 Transformer Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		60.00	120.00	180.00	300.00	450.00	600.00	Wtd
Vmin	595	97.05	98.39	98.73	98.80	98.60	98.29	98.6
Vnom	700	97.05	98.39	98.73	98.80	98.60	98.29	98.6
Vmax	800	97.05	98.39	98.73	98.80	98.60	98.29	98.6

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	59025.6	595.7	97.4	59031.6	595.7	97.4	59023.2	595.7	97.4	59031.0	595.7	97.4	59043.5	595.7	97.4
20%	Vmin	129405.3	594.9	98.0	129379.3	594.9	98.0	129398.7	594.9	98.0	129385.3	594.9	98.0	129399.3	594.9	98.0
30%	Vmin	194861.0	595.2	98.0	194875.7	595.2	98.0	194856.7	595.2	98.0	194837.3	595.2	98.0	194827.3	595.2	98.0
50%	Vmin	327794.0	595.7	98.0	327847.3	595.7	98.0	327860.7	595.7	98.0	327889.3	595.7	98.0	327898.0	595.7	98.0
75%	Vmin	422066.7	595.9	98.0	422106.3	596.0	98.0	422151.0	596.1	98.0	422195.7	596.1	98.0	422128.3	596.1	98.0
100%	Vmin	572749.0	595.2	97.8	572966.0	595.2	97.8	572861.0	595.3	97.8	572705.3	595.2	97.8	573146.3	595.3	97.8
10%	Vnom	59011.7	699.2	96.7	59021.7	699.2	96.7	59007.6	699.2	96.7	59017.8	699.2	96.7	59020.4	699.2	96.7
20%	Vnom	128962.0	699.5	97.5	128975.7	699.5	97.5	128964.3	699.5	97.5	128966.0	699.5	97.5	128973.0	699.5	97.5
30%	Vnom	194369.0	699.9	97.6	194388.3	699.9	97.6	194407.7	699.9	97.6	194409.7	699.9	97.6	194418.3	699.9	97.6
50%	Vnom	327516.0	700.3	97.7	327539.3	700.2	97.7	327537.0	700.3	97.7	327593.3	700.3	97.7	327555.7	700.2	97.7
75%	Vnom	421619.7	700.5	97.6	421605.7	700.5	97.6	421634.7	700.5	97.6	421628.3	700.5	97.6	421601.3	700.5	97.6
100%	Vnom	572360.0	700.6	97.4	572237.0	700.6	97.4	572196.3	700.7	97.4	572196.3	700.7	97.4	572206.3	700.7	97.4
10%	Vmax	59895.7	799.9	96.3	59891.3	799.8	96.3	59900.2	799.8	96.3	59896.6	799.8	96.3	59896.5	799.8	96.3
20%	Vmax	131041.0	800.1	97.3	131056.3	800.1	97.3	131062.0	800.1	97.3	131050.0	800.1	97.3	131067.3	800.1	97.3
30%	Vmax	193181.3	800.5	97.1	193182.7	800.5	97.1	193172.7	800.5	97.1	193224.7	800.4	97.1	193243.0	800.4	97.1
50%	Vmax	326421.0	802.1	97.4	326415.7	801.9	97.4	326434.0	801.8	97.4	326433.3	801.7	97.4	326429.7	801.6	97.4
75%	Vmax	421358.7	802.5	97.4	421211.7	802.5	97.4	421219.0	802.5	97.4	421202.0	802.5	97.4	421213.0	802.5	97.4
100%	Vmax	573987.3	802.1	97.4	574096.0	802.4	97.4	574070.7	802.5	97.4	574076.3	802.6	97.4	574058.0	802.6	97.3

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	59040.0	595.7	97.4	59040.0	595.8	97.4									
20%	Vmin	129363.0	594.9	98.0	129396.3	595.0	98.0									
30%	Vmin	194828.7	595.2	98.0	194855.7	595.2	98.0									
50%	Vmin	327847.3	595.8	98.0	327880.0	595.8	98.0									
75%	Vmin	422088.3	596.1	98.0	422096.7	596.1	98.0									
100%	Vmin	573203.3	595.4	97.8	572792.7	595.3	97.8									
10%	Vnom	59012.0	699.3	96.7	59011.4	699.2	96.7									
20%	Vnom	128985.0	699.5	97.5	128969.0	699.5	97.5									
30%	Vnom	194438.3	699.8	97.6	194410.3	699.8	97.6									
50%	Vnom	327601.7	700.3	97.7	327587.7	700.3	97.7									
75%	Vnom	421615.0	700.5	97.6	421596.7	700.5	97.6									
100%	Vnom	572145.7	700.7	97.4	572183.0	700.7	97.4									
10%	Vmax	59898.3	799.8	96.3	59896.7	799.8	96.3									
20%	Vmax	131067.7	800.1	97.3	131061.3	800.0	97.3									
30%	Vmax	193207.7	800.4	97.1	193168.0	800.4	97.1									
50%	Vmax	326453.3	801.6	97.4	326576.0	801.5	97.4									
75%	Vmax	421180.7	802.6	97.4	421184.7	802.5	97.4									
100%	Vmax	574098.3	802.7	97.3	574081.0	802.7	97.3									