Manufacturer: Satcon Technology Corporation

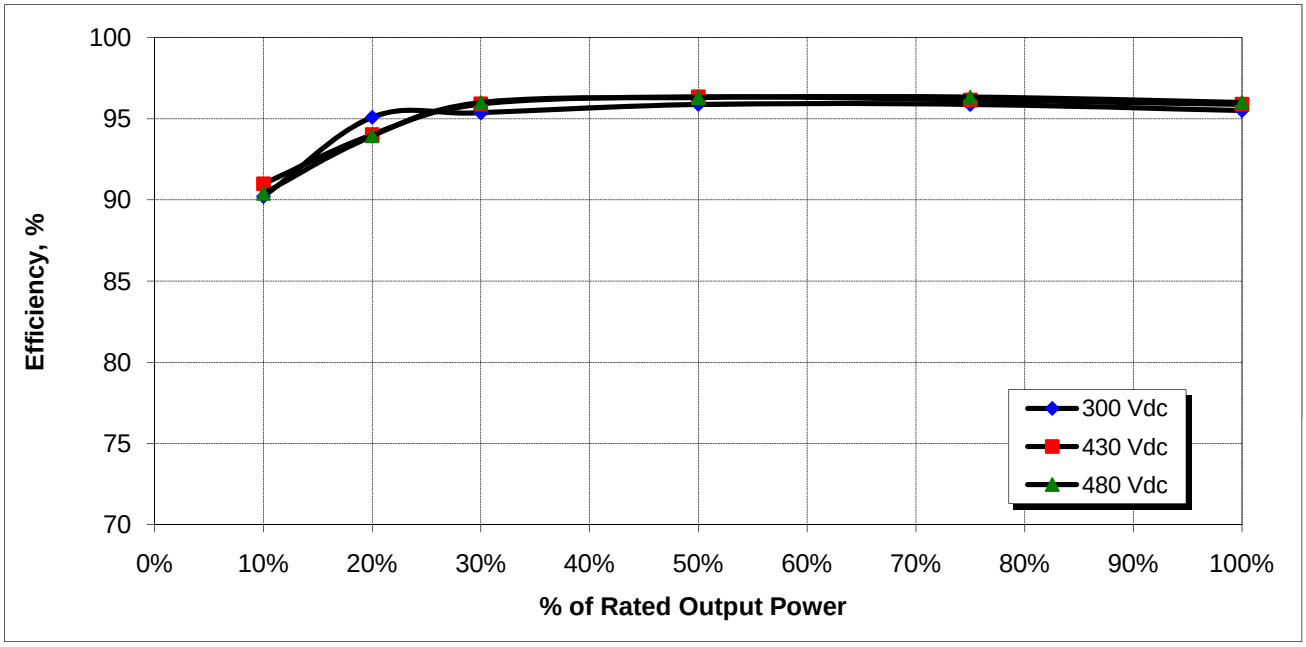
Model #: Model SDMS0500UL480TN (with SSB2509LNU Subcombiner)

Rated Maximum Continuous Output Power: 500.00 kW Night Tare Loss: 101.00 W

Vmin: 300 Vdc Vnom: 430 Vdc Vmax: 480 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	300	90.20	95.09	95.37	95.88	95.89	95.51	95.54
Vnom	430	90.99	94.04	95.92	96.36	96.17	95.90	95.85
Vmax	480	90.40	93.94	95.99	96.31	96.34	96.00	95.92

CEC Efficiency of Inverter and Subcombiner = 96.0%



Manufacturer: Satcon Technology Corporation

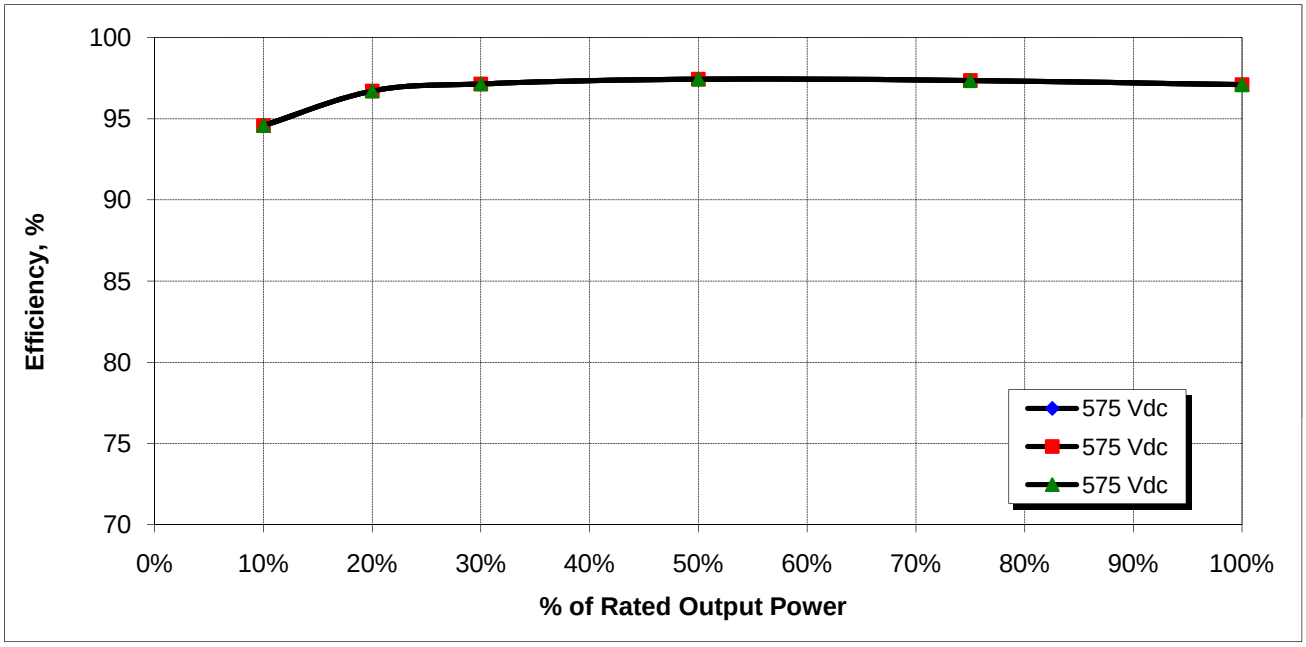
Model #: Solstice Inverter, Model SDMS0500UL480TN (480Vac)

Rated Maximum Continuous Output Power: 500.0 kW Night Tare Loss: 101 W

Vmin: 575 Vdc Vnom: 575 Vdc Vmax: 575 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	575	94.6	96.7	97.2	97.5	97.4	97.1	97.2
Vnom	575	94.6	96.7	97.2	97.5	97.4	97.1	97.2
Vmax	575	94.6	96.7	97.2	97.5	97.4	97.1	97.2

Inverter Efficiency only = 97.0%



S.S. Subcombiner (SSB2509LNU) 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	300	95.36	98.32	98.17	98.39	98.49	98.36	98.29
Vnom	430	96.19	97.23	98.72	98.88	98.78	98.76	98.61
Vmax	480	95.57	97.14	98.81	98.83	98.96	98.86	98.68

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	44988.8	577.1	94.6	44935.3	577.0	94.6	44961.7	577.1	94.6	44927.2	577.1	94.6	44948.1	577.1	94.6
20%	Vmin	105611.0	577.0	96.7	105604.3	576.9	96.7	105617.7	576.9	96.7	105663.3	576.9	96.7	105711.3	576.9	96.7
30%	Vmin	156202.3	576.9	97.1	156134.3	576.9	97.1	156152.3	576.9	97.1	156144.3	576.8	97.2	156125.3	576.9	97.1
50%	Vmin	272009.3	576.5	97.4	272064.7	576.5	97.4	272064.3	576.5	97.5	272143.3	576.5	97.5	272180.3	576.5	97.5
75%	Vmin	357628.7	576.2	97.4	357724.7	576.2	97.4	357618.3	576.2	97.4	357612.7	576.2	97.3	357672.7	576.1	97.4
100%	Vmin	483414.3	575.5	97.1	483330.7	575.6	97.1	483454.0	575.5	97.1	483425.3	575.6	97.1	483454.3	575.6	97.1
10%	Vnom	44988.8	577.1	94.6	44935.3	577.0	94.6	44961.7	577.1	94.6	44927.2	577.1	94.6	44948.1	577.1	94.6
20%	Vnom	105611.0	577.0	96.7	105604.3	576.9	96.7	105617.7	576.9	96.7	105663.3	576.9	96.7	105711.3	576.9	96.7
30%	Vnom	156202.3	576.9	97.1	156134.3	576.9	97.1	156152.3	576.9	97.1	156144.3	576.8	97.2	156125.3	576.9	97.1
50%	Vnom	272009.3	576.5	97.4	272064.7	576.5	97.4	272064.3	576.5	97.5	272143.3	576.5	97.5	272180.3	576.5	97.5
75%	Vnom	357628.7	576.2	97.4	357724.7	576.2	97.4	357618.3	576.2	97.4	357612.7	576.2	97.3	357672.7	576.1	97.4
100%	Vnom	483414.3	575.5	97.1	483330.7	575.6	97.1	483454.0	575.5	97.1	483425.3	575.6	97.1	483454.3	575.6	97.1
10%	Vmax	44988.8	577.1	94.6	44935.3	577.0	94.6	44961.7	577.1	94.6	44927.2	577.1	94.6	44948.1	577.1	94.6
20%	Vmax	105611.0	577.0	96.7	105604.3	576.9	96.7	105617.7	576.9	96.7	105663.3	576.9	96.7	105711.3	576.9	96.7
30%	Vmax	156202.3	576.9	97.1	156134.3	576.9	97.1	156152.3	576.9	97.1	156144.3	576.8	97.2	156125.3	576.9	97.1
50%	Vmax	272009.3	576.5	97.4	272064.7	576.5	97.4	272064.3	576.5	97.5	272143.3	576.5	97.5	272180.3	576.5	97.5
75%	Vmax	357628.7	576.2	97.4	357724.7	576.2	97.4	357618.3	576.2	97.4	357612.7	576.2	97.3	357672.7	576.1	97.4
100%	Vmax	483414.3	575.5	97.1	483330.7	575.6	97.1	483454.0	575.5	97.1	483425.3	575.6	97.1	483454.3	575.6	97.1

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	44920.5	577.1	94.6	44960.4	577.1	94.6									
20%	Vmin	105660.7	576.9	96.7	105651.3	576.9	96.7									
30%	Vmin	156164.0	576.9	97.2	156145.7	576.9	97.2									
50%	Vmin	272060.3	576.5	97.5	272144.7	576.5	97.4									
75%	Vmin	357685.3	576.2	97.4	357635.7	576.1	97.4									
100%	Vmin	483515.3	575.6	97.1	483365.0	575.6	97.1									
10%	Vnom	44920.5	577.1	94.6	44960.4	577.1	94.6									
20%	Vnom	105660.7	576.9	96.7	105651.3	576.9	96.7									
30%	Vnom	156164.0	576.9	97.2	156145.7	576.9	97.2									
50%	Vnom	272060.3	576.5	97.5	272144.7	576.5	97.4									
75%	Vnom	357685.3	576.2	97.4	357635.7	576.1	97.4									
100%	Vnom	483515.3	575.6	97.1	483365.0	575.6	97.1									
10%	Vmax	44920.5	577.1	94.6	44960.4	577.1	94.6									
20%	Vmax	105660.7	576.9	96.7	105651.3	576.9	96.7									
30%	Vmax	156164.0	576.9	97.2	156145.7	576.9	97.2									
50%	Vmax	272060.3	576.5	97.5	272144.7	576.5	97.4									
75%	Vmax	357685.3	576.2	97.4	357635.7	576.1	97.4									
100%	Vmax	483515.3	575.6	97.1	483365.0	575.6	97.1									