Manufacturer: Satcon Technology Corporation

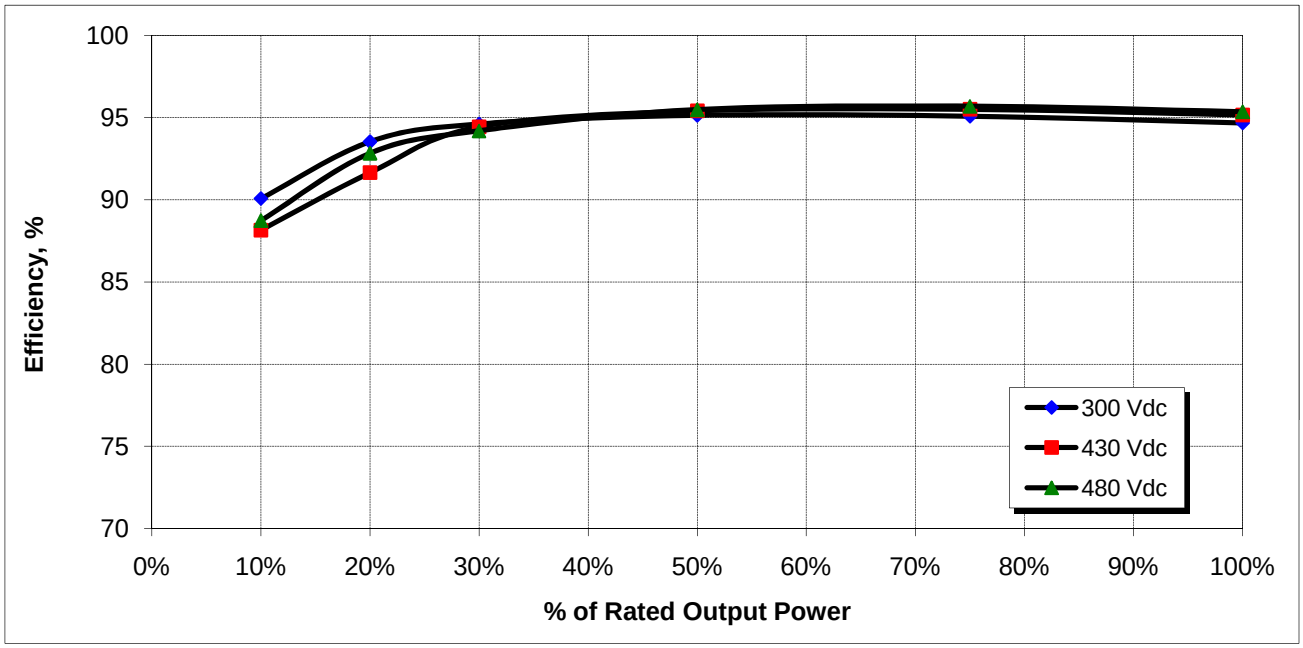
Model #: SSB2512LNU + SDMS0100240LNIU

Rated Maximum Continuous Output Power: 100.00 kW Night Tare Loss: 61.79 W

Vmin: 300 Vdc Vnom: 430 Vdc Vmax: 480 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		10.00	20.00	30.00	50.00	75.00	100.00	Wtd
Vmin	300	90.1	93.5	94.6	95.1	95.1	94.7	94.7
Vnom	430	88.1	91.6	94.4	95.4	95.5	95.2	94.8
Vmax	480	88.7	92.8	94.2	95.5	95.7	95.3	95.0

CEC Efficiency of inverter and combiner = 95.0%



Manufacturer: Satcon Technology Corporation

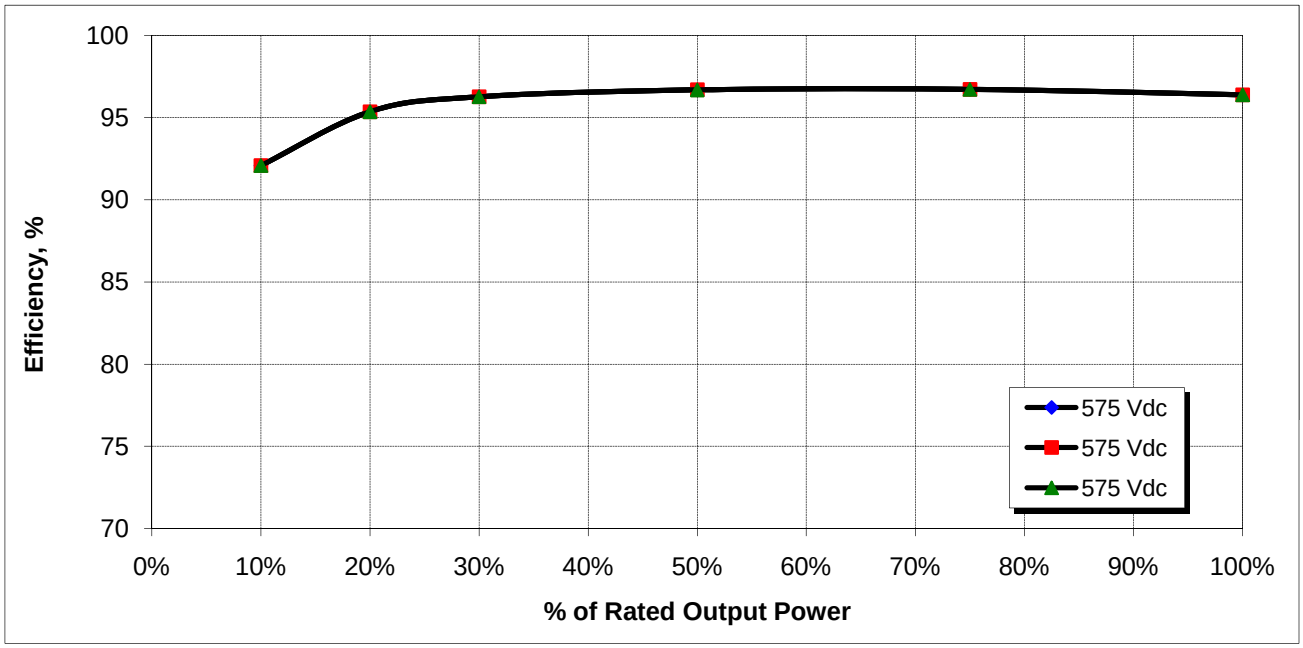
Model #: SDMS0100240LNIU

Rated Maximum Continuous Output Power: 100.00 kW Night Tare Loss: 61.79 W

Vmin: 575 Vdc Vnom: 575 Vdc Vmax: 575 Vdc

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		10.00	20.00	30.00	50.00	75.00	100.00	Wtd
Vmin	575	92.1	95.4	96.3	96.7	96.7	96.4	96.4
Vnom	575	92.1	95.4	96.3	96.7	96.7	96.4	96.4
Vmax	575	92.1	95.4	96.3	96.7	96.7	96.4	96.4

Inverter Efficiency only = 96.5%



S.S. Subcombiner (SSB2512LNU) Efficiency

		Power Level (%; kW)						
		10%	20%	30%	50%	75%	100%	
Input Voltage (Vdc)		10.00	20.00	30.00	50.00	75.00	100.00	Wtd
Vmin	300	97.8	98.1	98.3	98.4	98.3	98.2	98.3
Vnom	430	95.7	96.1	98.1	98.7	98.7	98.7	98.4
Vmax	480	96.4	97.4	97.8	98.8	98.9	98.9	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	9132.81	576.07	91.9969	9134.22	576.05	92.1727	9131.9833	576.07	92.15649	9132.2433	576.14	92.21883	9132.67667	576.09	92.03069
20%	Vmin	21311.4667	575.98	95.48403	21315.233	575.97	95.39142	21302.4	576.02	95.39001	21299.4	575.98	95.34947	21273.6667	575.85	95.28737
30%	Vmin	31503.7333	576.03	96.28811	31506.733	575.79	96.33016	31496	575.81	96.25985	31493.2	575.95	96.20604	31498.2	575.91	96.22316
50%	Vmin	53813	575.86	96.64599	53781.9	575.89	96.65303	53777.433	575.91	96.62868	53782.7	575.86	96.72979	53803.9667	575.77	96.73522
75%	Vmin	71086.9	575.72	96.73552	71096.333	575.69	96.74247	71061.733	575.67	96.71556	71048.8	575.83	96.64465	71040	575.75	96.70038
100%	Vmin	95302.7667	575.63	96.36525	60.004333	575.55	96.29872	95297	575.52	96.40844	95387.833	575.59	96.48907	95372.5667	575.63	96.43487
10%	Vnom	9132.81	576.07	91.9969	9134.22	576.05	92.1727	9131.9833	576.07	92.15649	9132.2433	576.14	92.21883	9132.67667	576.09	92.03069
20%	Vnom	21311.4667	575.98	95.48403	21315.233	575.97	95.39142	21302.4	576.02	95.39001	21299.4	575.98	95.34947	21273.6667	575.85	95.28737
30%	Vnom	31503.7333	576.03	96.28811	31506.733	575.79	96.33016	31496	575.81	96.25985	31493.2	575.95	96.20604	31498.2	575.91	96.22316
50%	Vnom	53813	575.86	96.64599	53781.9	575.89	96.65303	53777.433	575.91	96.62868	53782.7	575.86	96.72979	53803.9667	575.77	96.73522
75%	Vnom	71086.9	575.72	96.73552	71096.333	575.69	96.74247	71061.733	575.67	96.71556	71048.8	575.83	96.64465	71040	575.75	96.70038
100%	Vnom	95302.7667	575.63	96.36525	60.004333	575.55	96.29872	95297	575.52	96.40844	95387.833	575.59	96.48907	95372.5667	575.63	96.43487
10%	Vmax	9132.81	576.07	91.9969	9134.22	576.05	92.1727	9131.9833	576.07	92.15649	9132.2433	576.14	92.21883	9132.67667	576.09	92.03069
20%	Vmax	21311.4667	575.98	95.48403	21315.233	575.97	95.39142	21302.4	576.02	95.39001	21299.4	575.98	95.34947	21273.6667	575.85	95.28737
30%	Vmax	31503.7333	576.03	96.28811	31506.733	575.79	96.33016	31496	575.81	96.25985	31493.2	575.95	96.20604	31498.2	575.91	96.22316
50%	Vmax	53813	575.86	96.64599	53781.9	575.89	96.65303	53777.433	575.91	96.62868	53782.7	575.86	96.72979	53803.9667	575.77	96.73522
75%	Vmax	71086.9	575.72	96.73552	71096.333	575.69	96.74247	71061.733	575.67	96.71556	71048.8	575.83	96.64465	71040	575.75	96.70038
100%	Vmax	95302.7667	575.63	96.36525	60.004333	575.55	96.29872	95297	575.52	96.40844	95387.833	575.59	96.48907	95372.5667	575.63	96.43487

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	9131.27	576.17	91.97242	9133.6567	576.04	92.03176									
20%	Vmin	21279.4333	575.98	95.30083	21259.733	575.95	95.27092									
30%	Vmin	31491.5333	575.92	96.27023	31505.333	575.96	96.27044									
50%	Vmin	53811.4667	575.67	96.68195	53794.6	575.75	96.70824									
75%	Vmin	71066.2	575.71	96.74847	71054.567	575.79	96.72223									
100%	Vmin	95291.7333	575.63	96.35803	59.985	575.53	96.28036									
10%	Vnom	9131.27	576.17	91.97242	9133.6567	576.04	92.03176									
20%	Vnom	21279.4333	575.98	95.30083	21259.733	575.95	95.27092									
30%	Vnom	31491.5333	575.92	96.27023	31505.333	575.96	96.27044									
50%	Vnom	53811.4667	575.67	96.68195	53794.6	575.75	96.70824									
75%	Vnom	71066.2	575.71	96.74847	71054.567	575.79	96.72223									
100%	Vnom	95291.7333	575.63	96.35803	59.985	575.53	96.28036									
10%	Vmax	9131.27	576.17	91.97242	9133.6567	576.04	92.03176									
20%	Vmax	21279.4333	575.98	95.30083	21259.733	575.95	95.27092									
30%	Vmax	31491.5333	575.92	96.27023	31505.333	575.96	96.27044									
50%	Vmax	53811.4667	575.67	96.68195	53794.6	575.75	96.70824									
75%	Vmax	71066.2	575.71	96.74847	71054.567	575.79	96.72223									
100%	Vmax	95291.7333	575.63	96.35803	59.985	575.53	96.28036									