Manufacturer: Satcon Technology Corporation

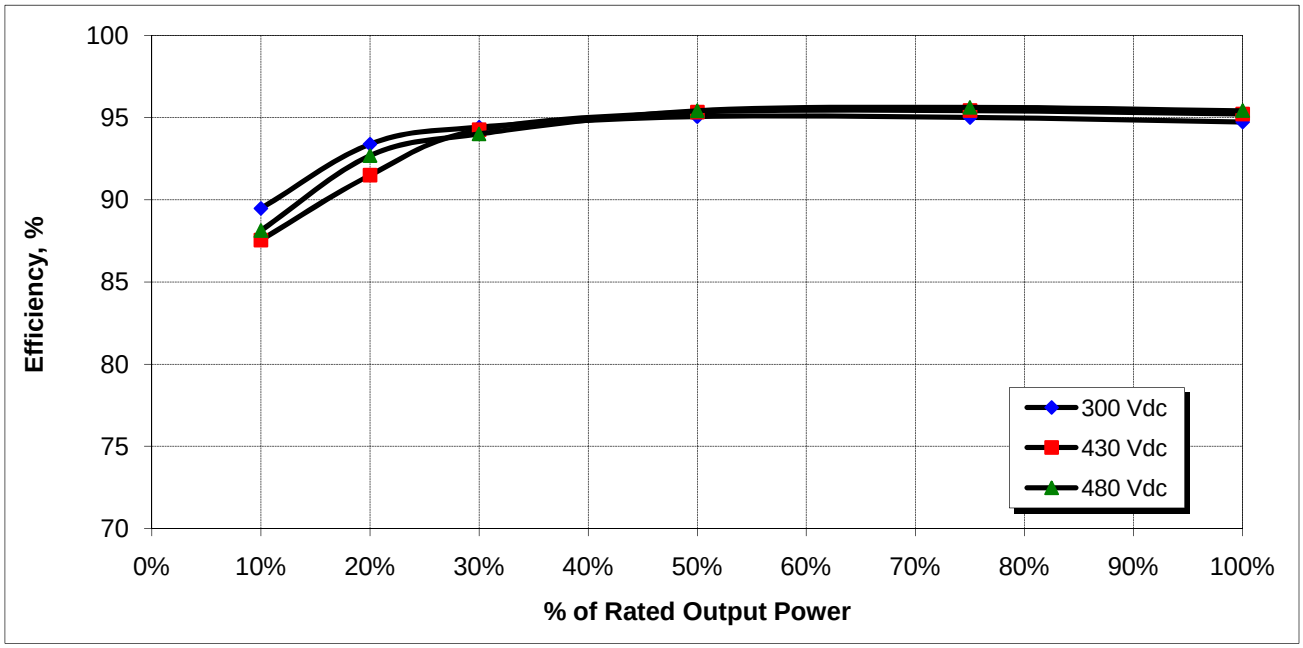
Model #: SSB2512LNU + SDMS0100480LNIU

Rated Maximum Continuous Output Power: 100.00 kW Night Tare Loss: 63.88 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	89.5	93.4	94.4	95.1	95.0	94.7	94.6
Vnom	430	87.6	91.5	94.3	95.3	95.4	95.2	94.7
Vmax	480	88.1	92.7	94.0	95.4	95.6	95.4	94.9

CEC Efficiency of inverter and combiner = 95.0%



Manufacturer: Satcon Technology Corporation

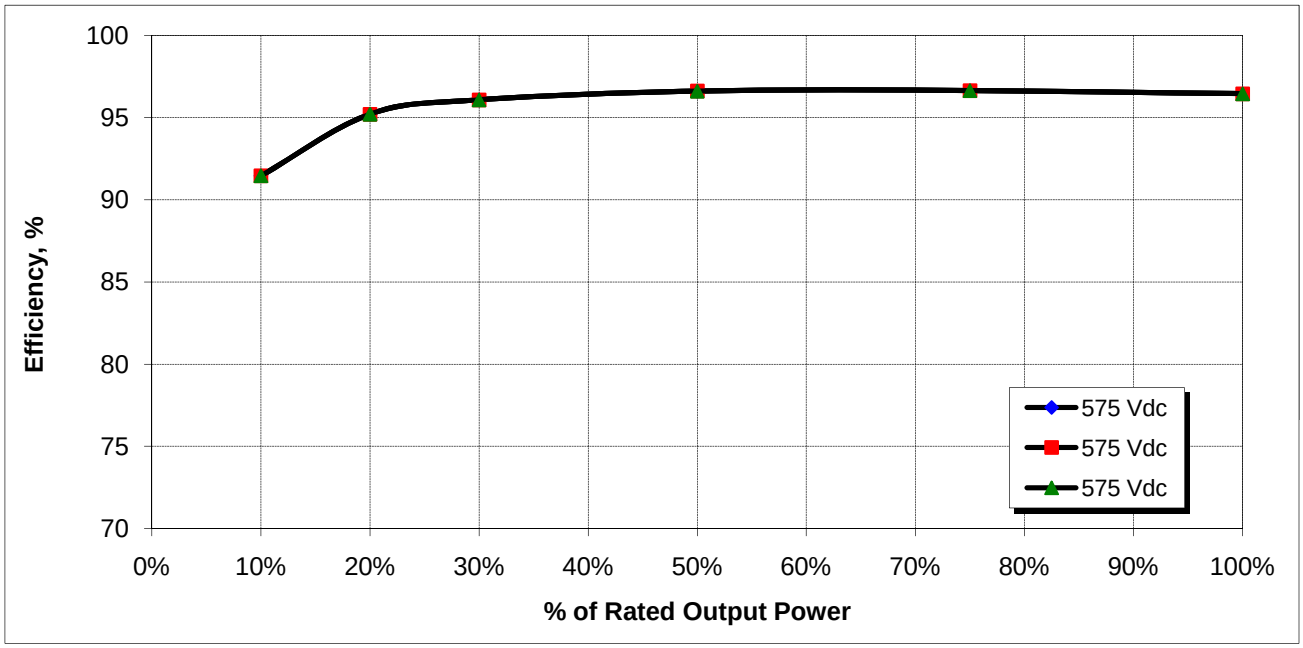
Model #: SDMS0100480LNIU

Rated Maximum Continuous Output Power: 100.00 kW Night Tare Loss: 63.88 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	91.5	95.2	96.1	96.6	96.6	96.4	96.3
Vnom	575	91.5	95.2	96.1	96.6	96.6	96.4	96.3
Vmax	575	91.5	95.2	96.1	96.6	96.6	96.4	96.3

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	9125.98	575.96	91.43076	9127.0933	575.86	91.56795	9132.6633	575.96	91.52055	9130.6967	575.91	91.50403	9130.16667	575.84	91.35987
20%	Vmin	21261.2667	575.92	95.19658	21258.6	575.86	95.21377	21262.2	575.87	95.21951	21268.267	575.75	95.21828	21270.2667	575.93	95.20718
30%	Vmin	31341.1	575.99	96.08608	31350.8	575.85	96.12574	31358.167	575.91	96.0792	31352.8	575.83	96.04489	31331.1667	575.78	96.01308
50%	Vmin	53565.7333	575.75	96.63312	53563.967	575.71	96.60309	53563.7	575.86	96.56889	53558	575.79	96.61034	53578.2667	575.68	96.64015
75%	Vmin	71765.6667	575.63	96.67415	71733.167	575.56	96.66318	71693.933	575.78	96.63037	71690.133	575.63	96.56035	71732.3333	575.56	96.66744
100%	Vmin	95934.4	575.51	96.49454	59.995667	575.44	96.51745	95971.767	575.34	96.45956	95857.967	575.48	96.35449	95873.6667	575.47	96.36281
10%	Vnom	9125.98	575.96	91.43076	9127.0933	575.86	91.56795	9132.6633	575.96	91.52055	9130.6967	575.91	91.50403	9130.16667	575.84	91.35987
20%	Vnom	21261.2667	575.92	95.19658	21258.6	575.86	95.21377	21262.2	575.87	95.21951	21268.267	575.75	95.21828	21270.2667	575.93	95.20718
30%	Vnom	31341.1	575.99	96.08608	31350.8	575.85	96.12574	31358.167	575.91	96.0792	31352.8	575.83	96.04489	31331.1667	575.78	96.01308
50%	Vnom	53565.7333	575.75	96.63312	53563.967	575.71	96.60309	53563.7	575.86	96.56889	53558	575.79	96.61034	53578.2667	575.68	96.64015
75%	Vnom	71765.6667	575.63	96.67415	71733.167	575.56	96.66318	71693.933	575.78	96.63037	71690.133	575.63	96.56035	71732.3333	575.56	96.66744
100%	Vnom	95934.4	575.51	96.49454	59.995667	575.44	96.51745	95971.767	575.34	96.45956	95857.967	575.48	96.35449	95873.6667	575.47	96.36281
10%	Vmax	9125.98	575.96	91.43076	9127.0933	575.86	91.56795	9132.6633	575.96	91.52055	9130.6967	575.91	91.50403	9130.16667	575.84	91.35987
20%	Vmax	21261.2667	575.92	95.19658	21258.6	575.86	95.21377	21262.2	575.87	95.21951	21268.267	575.75	95.21828	21270.2667	575.93	95.20718
30%	Vmax	31341.1	575.99	96.08608	31350.8	575.85	96.12574	31358.167	575.91	96.0792	31352.8	575.83	96.04489	31331.1667	575.78	96.01308
50%	Vmax	53565.7333	575.75	96.63312	53563.967	575.71	96.60309	53563.7	575.86	96.56889	53558	575.79	96.61034	53578.2667	575.68	96.64015
75%	Vmax	71765.6667	575.63	96.67415	71733.167	575.56	96.66318	71693.933	575.78	96.63037	71690.133	575.63	96.56035	71732.3333	575.56	96.66744
100%	Vmax	95934.4	575.51	96.49454	59.995667	575.44	96.51745	95971.767	575.34	96.45956	95857.967	575.48	96.35449	95873.6667	575.47	96.36281

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	9140.59	575.9	91.40485	9126.94	575.87	91.43226									
20%	Vmin	21245.2	575.87	95.0984	21267.933	575.77	95.26097									
30%	Vmin	31351.5333	575.89	96.08478	31340.833	575.91	96.07397									
50%	Vmin	53541.3333	575.7	96.60234	53522.767	575.65	96.60231									
75%	Vmin	71749.8	575.61	96.64826	71726.267	575.69	96.63713									
100%	Vmin	96016.9333	575.52	96.46046	60.012	575.56	96.4475									
10%	Vnom	9140.59	575.9	91.40485	9126.94	575.87	91.43226									
20%	Vnom	21245.2	575.87	95.0984	21267.933	575.77	95.26097									
30%	Vnom	31351.5333	575.89	96.08478	31340.833	575.91	96.07397									
50%	Vnom	53541.3333	575.7	96.60234	53522.767	575.65	96.60231									
75%	Vnom	71749.8	575.61	96.64826	71726.267	575.69	96.63713									
100%	Vnom	96016.9333	575.52	96.46046	60.012	575.56	96.4475									
10%	Vmax	9140.59	575.9	91.40485	9126.94	575.87	91.43226									
20%	Vmax	21245.2	575.87	95.0984	21267.933	575.77	95.26097									
30%	Vmax	31351.5333	575.89	96.08478	31340.833	575.91	96.07397									
50%	Vmax	53541.3333	575.7	96.60234	53522.767	575.65	96.60231									
75%	Vmax	71749.8	575.61	96.64826	71726.267	575.69	96.63713									
100%	Vmax	96016.9333	575.52	96.46046	60.012	575.56	96.4475									