Manufacturer: Satcon Technology Corporation

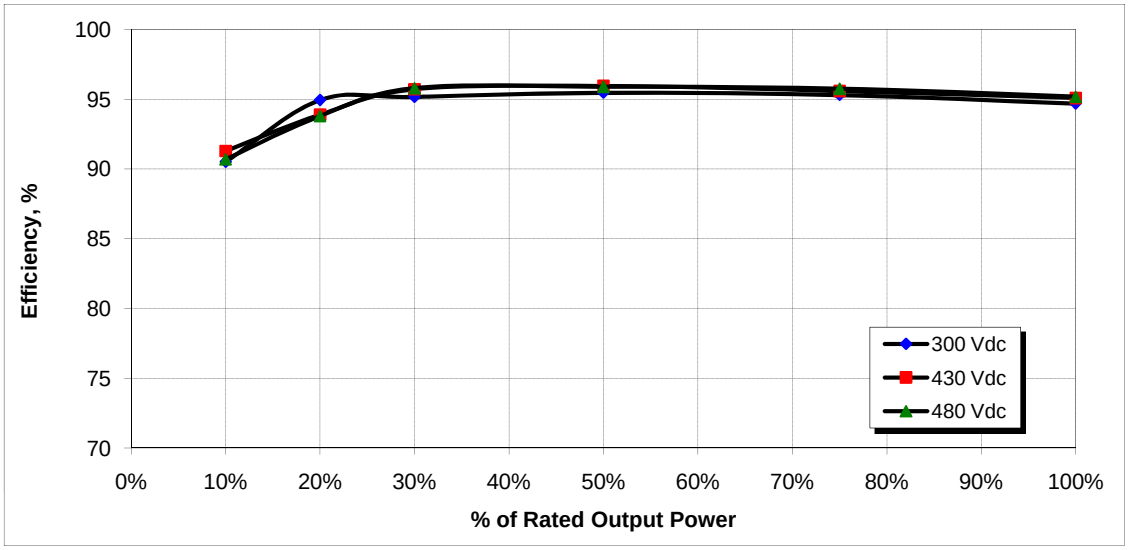
Model #: SDMS0500UL320XN (with Subcombiner SSB2509LNU + 500kVA TP1 MV Transformer)

Rated Maximum Continuous Output Power: 500.00 kW Night Tare Loss: 98 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	90.5	94.9	95.2	95.5	95.3	94.7	95.09
Vnom	430	91.3	93.9	95.7	96.0	95.6	95.1	95.40
Vmax	480	90.7	93.8	95.8	95.9	95.8	95.2	95.46

CEC Efficiency of Inverter, Subcombiner and TP1 MV Transformer = 95.5%



Manufacturer: Satcon Technology Corporation

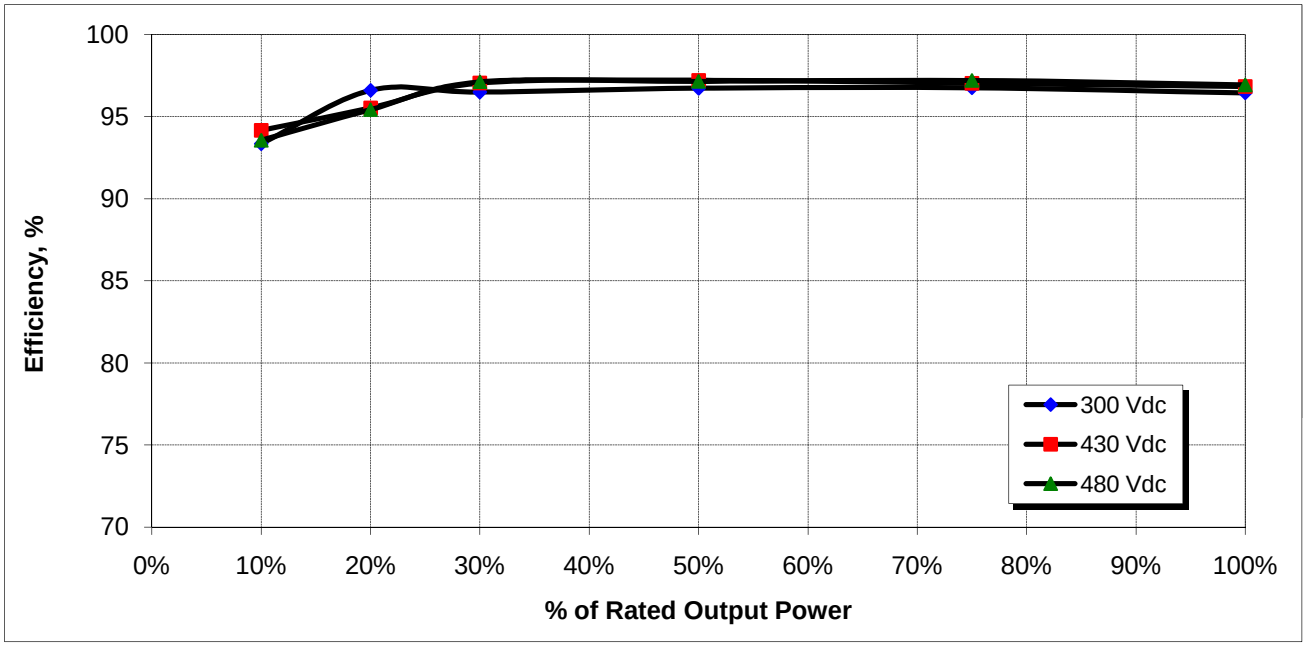
Model #: SDMS0500UL320XN (320Vac) with SSB

Rated Maximum Continuous Output Power: 500.00 kW Night Tare Loss: 98 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	93.4	96.6	96.5	96.7	96.8	96.4	96.6
Vnom	430	94.2	95.5	97.0	97.2	97.0	96.8	96.9
Vmax	480	93.6	95.4	97.1	97.2	97.2	96.9	96.9

CEC Efficiency of Inverter and Subcombiner = 97.0%



500kVA TP1 MV Transformer

		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	96.95	98.29	98.63	98.70	98.50	98.19	98.5
Vnom	430	96.95	98.29	98.63	98.70	98.50	98.19	98.5
Vmax	480	96.95	98.29	98.63	98.70	98.50	98.19	98.5

Manufacturer: Satcon Technology Corporation

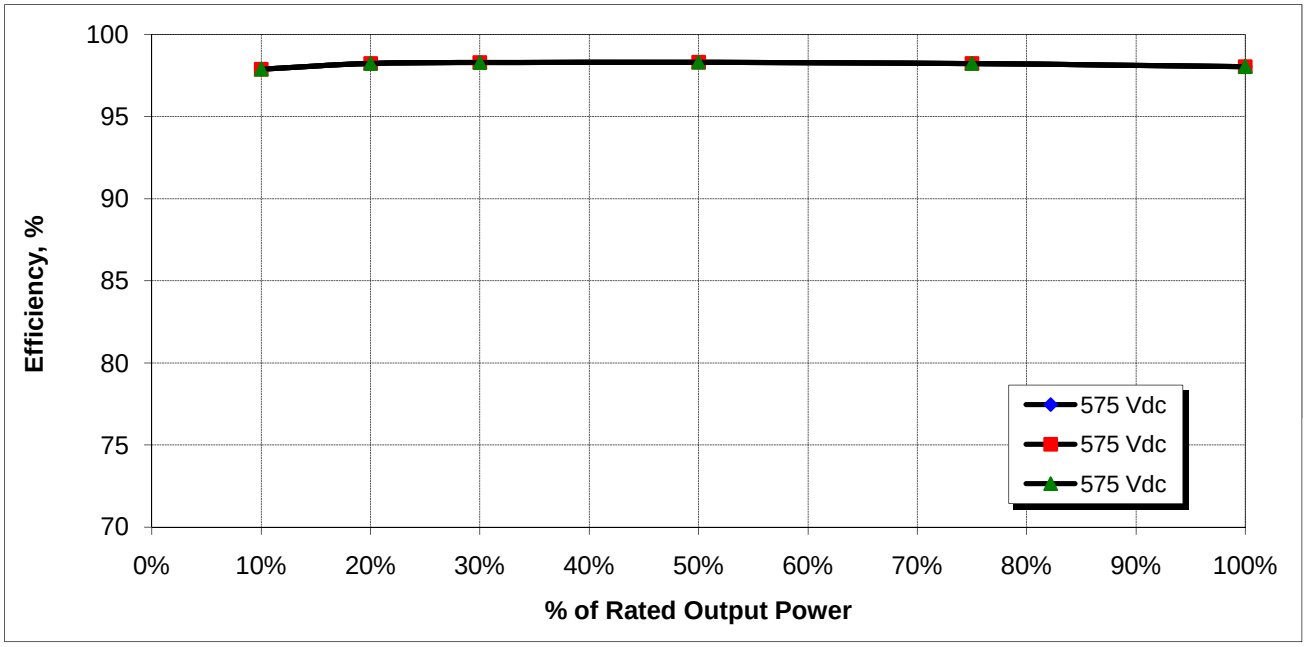
Model #: SDMS0500UL320XN

Rated Maximum Continuous Output Power: 500.0 kW Night Tare Loss: 98 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	97.9	98.3	98.3	98.3	98.2	98.1	98.2
Vnom	575	97.9	98.3	98.3	98.3	98.2	98.1	98.2
Vmax	575	97.9	98.3	98.3	98.3	98.2	98.1	98.2

Inverter Efficiency only = 98.0%



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	46558.9	577.1	97.9	46523.7	577.0	97.9	46540.2	577.1	97.9	46490.9	577.1	97.9	46509.2	577.1	97.9
20%	Vmin	107316.0	577.0	98.2	107280.7	576.9	98.2	107291.3	576.9	98.3	107325.3	576.9	98.3	107386.0	576.9	98.3
30%	Vmin	158050.0	576.9	98.3	157980.0	576.9	98.3	157998.0	576.9	98.3	157988.7	576.8	98.3	157979.7	576.9	98.3
50%	Vmin	274439.3	576.5	98.3	274507.0	576.5	98.3	274483.7	576.5	98.3	274528.3	576.5	98.3	274591.0	576.5	98.3
75%	Vmin	350587.0	576.3	98.2	350562.7	576.3	98.2	350656.7	576.3	98.2	350546.3	576.2	98.2	350545.3	576.3	98.2
100%	Vmin	478208.0	575.6	98.1	478293.3	575.7	98.1	478112.0	575.7	98.1	478203.7	575.7	98.1	478111.7	575.7	98.1
10%	Vnom	46558.9	577.1	97.9	46523.7	577.0	97.9	46540.2	577.1	97.9	46490.9	577.1	97.9	46509.2	577.1	97.9
20%	Vnom	107316.0	577.0	98.2	107280.7	576.9	98.2	107291.3	576.9	98.3	107325.3	576.9	98.3	107386.0	576.9	98.3
30%	Vnom	158050.0	576.9	98.3	157980.0	576.9	98.3	157998.0	576.9	98.3	157988.7	576.8	98.3	157979.7	576.9	98.3
50%	Vnom	274439.3	576.5	98.3	274507.0	576.5	98.3	274483.7	576.5	98.3	274528.3	576.5	98.3	274591.0	576.5	98.3
75%	Vnom	350587.0	576.3	98.2	350562.7	576.3	98.2	350656.7	576.3	98.2	350546.3	576.2	98.2	350545.3	576.3	98.2
100%	Vnom	478208.0	575.6	98.1	478293.3	575.7	98.1	478112.0	575.7	98.1	478203.7	575.7	98.1	478111.7	575.7	98.1
10%	Vmax	46558.9	577.1	97.9	46523.7	577.0	97.9	46540.2	577.1	97.9	46490.9	577.1	97.9	46509.2	577.1	97.9
20%	Vmax	107316.0	577.0	98.2	107280.7	576.9	98.2	107291.3	576.9	98.3	107325.3	576.9	98.3	107386.0	576.9	98.3
30%	Vmax	158050.0	576.9	98.3	157980.0	576.9	98.3	157998.0	576.9	98.3	157988.7	576.8	98.3	157979.7	576.9	98.3
50%	Vmax	274439.3	576.5	98.3	274507.0	576.5	98.3	274483.7	576.5	98.3	274528.3	576.5	98.3	274591.0	576.5	98.3
75%	Vmax	350587.0	576.3	98.2	350562.7	576.3	98.2	350656.7	576.3	98.2	350546.3	576.2	98.2	350545.3	576.3	98.2
100%	Vmax	478208.0	575.6	98.1	478293.3	575.7	98.1	478112.0	575.7	98.1	478203.7	575.7	98.1	478111.7	575.7	98.1

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	46493.4	577.1	97.9	46514.9	577.1	97.9									
20%	Vmin	107352.7	576.9	98.3	107318.7	576.9	98.2									
30%	Vmin	157993.7	576.9	98.3	157973.0	576.9	98.3									
50%	Vmin	274476.3	576.5	98.3	274579.3	576.5	98.3									
75%	Vmin	350616.0	576.2	98.2	350555.0	576.2	98.2									
100%	Vmin	478140.0	575.6	98.1	478172.7	575.6	98.1									
10%	Vnom	46493.4	577.1	97.9	46514.9	577.1	97.9									
20%	Vnom	107352.7	576.9	98.3	107318.7	576.9	98.2									
30%	Vnom	157993.7	576.9	98.3	157973.0	576.9	98.3									
50%	Vnom	274476.3	576.5	98.3	274579.3	576.5	98.3									
75%	Vnom	350616.0	576.2	98.2	350555.0	576.2	98.2									
100%	Vnom	478140.0	575.6	98.1	478172.7	575.6	98.1									
10%	Vmax	46493.4	577.1	97.9	46514.9	577.1	97.9									
20%	Vmax	107352.7	576.9	98.3	107318.7	576.9	98.2									
30%	Vmax	157993.7	576.9	98.3	157973.0	576.9	98.3									
50%	Vmax	274476.3	576.5	98.3	274579.3	576.5	98.3									
75%	Vmax	350616.0	576.2	98.2	350555.0	576.2	98.2									
100%	Vmax	478140.0	575.6	98.1	478172.7	575.6	98.1									