

Central Inverter Macsun Solar SCP500/630TL

high performance, large volume central inverter, designed for utility-grade solar plant, with 315V output voltage, it is used with step up transformer to build large scale MV/HV solar plant.



High conversion
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deliver more energy

Powerful grid
management
functions(including
LVRT)

Active power continuous
adjustment (0-100%)

Reactive power
adjustable ,PF range
0.9lagging-0.9leading

- High conversion efficiency of 98.7% deliver more energy
- Powerful grid management functions(including LVRT)
- Active power continuous adjustment (0-100%)
- Reactive power adjustable ,PF range 0.9lagging-0.9leading
- Transformer-less inverter for direct connection to MV transformer
- Friendly touch monitoring interface, easy installation maintenance procedure
- Design for max.ROI: Newest generation IGBTs and advanced MPPT Algorithms
- Auxiliary electrical heating (optional)
- Comprehensive protection for overvoltage islanding,short-circuit,overload,overheat etc
- Certificate and approvals included

	MCP500TL	630TL
Input data:		
Max.DCpower	575kW	725kW
Max. DC voltage	1000V	1000V
DC voltage range	500V-1000V	500V-1000V
MPPT voltage range	500V-850V	500V-850V
Rated Input Voltage	600V	600V
Start Voltage/Power	520V/5000W	520V/6300W
Maximum Input Current	1120A	1450A
Number of Independent MPPT	1	1
Number of DC Inputs	10	10
Output (A/C):		
Rated AC output power	500kVA	630kVA
Rated AC voltage	315V	315V
AC voltage range	250V-362V	250V-362V
Rated frequency	50Hz/60Hz	50Hz/60Hz
Frequency Range	45Hz-55Hz/55Hz-65Hz	45Hz-55Hz/55Hz-65Hz
Rated current	917A	1155A
Maximum Output Current	1008A	1296A
Power factor	0.9lagging-0.9leading	0.9lagging-0.9leading
THDI	<3%(@Pac,r)	<3%(@Pac,r)

Efficiency:

Max. efficiency	98.7%	98.7%
Euro-eta	98.5%	98.5%
MPPT efficiency	99.9%	99.9%

Protection Devices:

DC disconnection device	DC circuit breaker,fuse(opt)	DC circuit breaker,fuse(opt)
AC disconnection device	AC circuit breaker	AC circuit breaker
DC overvoltage protection	Surge arrester type II	Surge arrester type II
AC overvoltage protection	Surge arrester type II	Surge arrester type II
Grid monitoring/Management	yes/yes	yes/yes
Ground monitoring	yes/yes	yes
Over temperature protection	yes	yes
Insulation monitoring	yes	yes

General data:

Dimension (W/H/D)in mm	2000/2080/850	2000/2080/850
Weight	1620KG	1620KG
Operating temperature range	-25℃ ... +55℃	-25℃ ... +55℃
Relative Humidity	0~90%	0~90%
Degree of Protection	IP20	IP20
Noise Emission	65dB(A)@1m	65dB(A)@1m
Maximum Operating Altitude	6000m(Derating over 3000m)	6000m(Derating over 3000m)
Standby consumption	<30W	<30W
Cooling	Air Forced	Air Forced
Topology	Transformerless	Transformerless
Display	Touch screen LCD	Touch screen LCD
Communication Interface	RS 485/ Ethernet	RS 485/ Ethernet

Certificates and Approvals

CE, TUV, CGC, LVRT, ZVRT, PEA, G59