

Maximum Power Point Tracking PV Grid-tied Central Inverters

SCPV-100TL /SCPV-250TL /SCPV-500TL



Leading-edge Technology

- Max. Efficiency **98.7%**
- Wide DC voltage
- Using effective IGBT power module
- Optimal MPPT technology
- Suitable for applications under harsh power grid conditions
- Advanced DSP digital control techniques
- Cost –effective guarantee for the PV power plant system



Inverter Model	Silicon CPV 100TL	Silicon CPV 250TL	Silicon CPV 500TL
Input			
Max DC Power [kW]	115	285	570
Max DC Voltage [V]	880/1000(opt.)	880/1000(opt.)	1000
Max. Input Current [A]	250	600	1200
MPP Voltage Range (Full Load) [V]	450-820	450-820	450-820
Numbers of MPPT	1	1	1
Strings per MPPT	2	8	8
Output			
Rated AC Power [kVA]	100	250	500
Max. AC Power [kW]	110	275	550
Max. AC Current [A]	235	590	1200
Rated AC Voltage / Range [V]	270/243~297	270/243~297	270/243~297
Rated AC Frequency / Range [Hz]	50/45~55		
Power Factor (cos Φ)	0.9/lagging... 0.9/leading		
THDi (at rated power)	< 3%		
Efficiency			
Max. Efficiency	98.0%	98.1%	98.7%
Euro Efficiency	97.7%	97.5%	98.3%
MPPT Efficiency	99.9%		
Protection			
Input disconnection device	DC breaker		
Output Disconnection device	AC breaker		
DC overvoltage protection / AC overvoltage protection	Class II		
Grid Monitoring	Yes		
Ground fault monitoring	Optional		
Insulation monitoring	Optional		
Surge arrester for auxiliary supply	Yes		
Protection class (as per IEC 62103) / Overvoltage Category (AS per IEC 60664-1)	Class I / II		
General Data			
Topology	Transformer less		
Dimension (W*H*D) [mm/In]	1160 * 1970 * 900 / 45.7 * 77.6 * 35.4	2200 * 2180 * 850 / 86.6 * 85.8 * 33.5	2100 * 2180 * 850 / 82.7 * 85.8 * 33.5
Weight [kg/lb]	530 / 1168	1700/3748	1800/3968
Operating Temperature Range [C/°F]	-20~+50/-4~122	-20~+50/-4~122	-30~+55/-22~131
External auxiliary supply voltage	230/40V((L-N-PE/L-L-PE)		
Cooling	Fan		
Ingress protection(IP)	IP20		
Humidity (non-condensing)	5%~95%		
Altitude	3000M		
Display	Touch Screen		
Communication	RS465/CAN(Standard)/Ethernet(Optional)		
Warranty (5/10/15/20/25 years)	Sta./opt./opt../opt./opt./opt.		
Certificates	2006/95/EC, CNCA / CTS-0006-2010 (CQC)(I) IEC 62109-1:2010 EN 61000-6-1/2/3/4, 2004/108/EC, EN50178 / IEC62109-1 / -2, EN 61000-3-2 / -3, IEC62116, IEC61727, EN50160, EN50178 / IEC62109-1, ENEL2010, RD1663 (2000), IEC62109-1 Refer to VDEO126-1-1		

Flexibility

- Easy for local setting
- Multi-Lingual LCD monitoring
- Multi-communication interfaces
- Friendly interface, easy to install and maintain

Reliability

- Comprehensive protection for overvoltage, islanding, short-circuit, overloading, overheating, etc. (18 protections)

Certificates

- Comply with UK, Italy, Spain and China grid Standard