

ON GRID **Shinson®**

- MAX 98.8% EFFICIENCY
- IP65 PROTECTION

SCO 80~125kW

Three Phase | 8/10 MPPTs | ON Grid

- Intelligent positioning abnormal string with integrated I/V scan function
- Real-time fault curve recording, improve O&M efficiency
- IP68 intelligent fans, lower operation temperature, longer lifespan
- Intelligent quad-core processor, information processing more comprehensive, fast, and efficient

INTELLIGENT



- High yield with Max. 98.8% efficiency
- Up to 10% continuous output overloading capacity
- 8/10 MPPT design, lower PV string mismatch loss
- DC 2 in 1 connection enabled, compatible with high-power panels

HIGH YIELD



- Support wireless and wired internet connection (RS485, WiFi/GPRS/LAN optional)
- Remote upgrading available
- Fast and easy commissioning via App or OLED display

CONVENIENCE



Model	SCO-80KTL	SCO-100KTL	SCO-110KTL	SCO-100KTL-HV	SCO-125KTL-HV
Input					
Max. Input Power (W)	128,000	160,000	176,000	160,000	200,000
Start-up Voltage (V)	200	200	200	200	200
Max. DC Input Voltage (V)	1,100	1,100	1,100	1,100	1,100
Rated DC Input Voltage (V)	620	620	620	750	750
MPPT Voltage Range (V)	200-950	200-950	200-950	200-950	200-950
Number of MPP Trackers	8	10	10	10	10
Number of DC Inputs per MPPT	2	2	2	2	2
Max. Input Current (A)	8*32	10*32	10*32	10*32	10*32
Max. Short-circuit Current (A)	8*40	10*40	10*40	10*40	10*40
Output					
Rated Output Power (W)	80,000	100,000	110,000	100,000	125,000
Max. Output Power (W)	88,000	110,000	121,000	110,000	137,500
Max. Apparent Power (VA)	88,000	110,000	121,000	110,000	137,500
Rated Output Voltage (V)	3L/N/PE, 230/400V			3L/PE, 288/500V	
Rated AC Frequency (Hz)	50/60Hz 45-55Hz/55-65Hz				
Max. Output Current (A)	127	158.8	174.8	127	158.8
Power Factor	0.8 leading...0.8 lagging				
Max. Total Harmonic Distortion	< 3% @ Rated Output Power				
DCI	< 0.5% In				
Efficiency					
Max. Efficiency	98.8%	98.8%	98.8%	98.8%	98.8%
European Efficiency	98.3%	98.3%	98.3%	98.3%	98.3%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%
Protection					
DC Reverse Polarity Protection	Integrated				
Insulation Resistance Protection	Integrated				
DC Switch	Optional				
Surge Protection	Integrated				
Over-temperature Protection	Integrated				
Residual Current Protection	Integrated				
Anti-islanding protection	Frequency shift, Integrated				
AC Short-circuit Protection	Integrated				
AC Over-voltage Protection	Integrated				
General Data					
Dimensions (mm)	975W*680H*290D				
Weight (kg)	79	82			
Protection Degree	IP65				
Self-consumption at Night (W)	< 1				
Topology	Transformer less				
Operating Temperature Range (°C)	-30~60				
Relative Humidity (%)	0~100				
Operating Altitude (m)	4000 (derating@ > 3000)				
Cooling	Smart Fan Cooling				
Display	OLED & LED				
Communication	RS485, WiFi/GPRS/LAN (Optional)				
Compliance	NB/T 32004, IEC62109, IEC62116, VDE 4105, VDE 0126, AS4777, C10/11 CEI 0-21, RD1699, NBR16149, IEC61727, IEC60068, IEC61683, EN50549, EN61000				