

ON GRID

Shinson[®]

- MAX 98.8% EFFICIENCY
- IP66 PROTECTION

SCO 30~60kW

Three Phase | 4 MPPTs | ON Grid

- High reliability due to good heat dissipation design
- Integrated lightning protection for both DC and AC
- Adapt to complex power grid
- High anti-corrosion ability with aluminum alloy die casting technology
- Wider working temperature and altitude, adapt to various installation environments

SAFE & RELIABLE



- High yield with Max. 98.8% efficiency
- European weighted efficiency 98.3%
- Wide MPPT voltage range
- Up to 10% continuous output overloading capacity
- DC 2 in 1 connection enabled, compatible with high-power panels

HIGH YIELD



- Plug and play connectors, easy for installation
- Support wireless and wired internet connection (RS485, WiFi/GPRS/LAN optional)
- Remote upgrading available
- Fast and easy configuration via App or OLED display

EASY TO USE



| Model | SCO-29.9KTL | SCO-30KTL | SCO-33KTL | SCO-36KTL | SCO-40KTL | SCO-45KTL | SCO-50KTL-M | SCO-60KTL-M |
|------------------------------------|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Input | | | | | | | | |
| Max. Input Power (W) | 47,840 | 48,000 | 52,800 | 57,600 | 64,000 | 72,000 | 80,000 | 96,000 |
| Start-up Voltage (V) | 180 | 180 | 180 | 180 | 180 | 180 | 180 | 180 |
| Max. DC Input Voltage (V) | 1,100 | 1,100 | 1,100 | 1,100 | 1,100 | 1,100 | 1,100 | 1,100 |
| Rated DC Input Voltage (V) | 620 | 620 | 620 | 620 | 620 | 620 | 620 | 620 |
| MPPT Voltage Range (V) | 180-1000 | 180-1000 | 180-1000 | 180-1000 | 180-1000 | 180-1000 | 180-1000 | 180-1000 |
| Number of MPP Trackers | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Number of DC Inputs per MPPT | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Max. Input Current (A) | 32/32/32/32 | 32/32/32/32 | 32/32/32/32 | 32/32/32/32 | 32/32/32/32 | 32/32/32/32 | 32/32/32/32 | 32/32/32/32 |
| Max. Short-circuit Current (A) | 40/40/40/40 | 40/40/40/40 | 40/40/40/40 | 40/40/40/40 | 40/40/40/40 | 40/40/40/40 | 40/40/40/40 | 40/40/40/40 |
| Output | | | | | | | | |
| Rated Output Power (W) | 29,900 | 30,000 | 33,000 | 36,000 | 40,000 | 45,000 | 50,000 | 60,000 |
| Max. Output Power (W) | 29,900 | 33,000 | 36,300 | 39,600 | 44,000 | 49,500 | 55,000 | 66,000 |
| AC output rated apparent power(VA) | 29,900 | 30,000 | 33,000 | 36,000 | 40,000 | 45,000 | 50,000 | 60,000 |
| Max. Apparent Power (VA) | 29,900 | 33,000 | 36,300 | 39,600 | 44,000 | 49,500 | 55,000 | 66,000 |
| Rated Output Voltage (V) | 3 L / N / PE, 380 / 400V | | | | | | | |
| Rated AC Frequency (Hz) | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 | 50/60 |
| AC output rated current(A) | 43.3 | 43.5 | 47.8 | 52.2 | 58.0 | 65.2 | 72.5 | 87.0 |
| Max. Output Current (A) | 43.3 | 47.8 | 52.6 | 57.4 | 63.8 | 71.7 | 79.7 | 95.7 |
| 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% | 98.8% | 98.8% | 98.8% |
| European Efficiency | 98.3% | 98.3% | 98.3% | 98.3% | 98.3% | 98.3% | 98.3% | 98.3% |
| MPPT Efficiency | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% | 99.9% |
| Protection | | | | | | | | |
| DC Reverse Polarity Protection | Integrated | | | | | | | |
| Insulation Resistance Protection | Integrated | | | | | | | |
| DC Switch | Integrated | | | | | | | |
| 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) | 600W*400H*270D | | | | | | | |
| Weight (kg) | 42 | | | | | | | |
| Protection Degree | IP66 | | | | | | | |
| Self-consumption at Night (W) | <1 | | | | | | | |
| Topology | Transformerless | | | | | | | |
| 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/T32004, IEC62109, IEC62116, VDE4105, VDE0126, UTE C15-712-1, AS4777, C10/11, CEI0-21, RD1699, NBR16149, IEC61727, IEC60068, IEC61683, EN50549, EN61000 | | | | | | | |

* : SCO 29.9KTL available for Australia only.