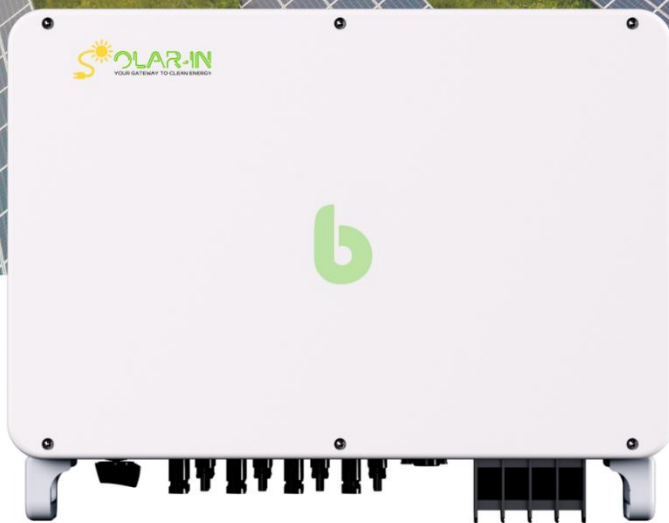


SON 50-70KTL3

Three Phase On-Grid Solar Inverter



Belgian Technology
Up to 15-Year Warranty

www.solarin.be

Efficient • Productive

Max. Efficiency 98.8%
Wide MPPT Voltage Range: 200-1000V
High Single Circuit Tracking Accuracy, Fast Dynamic Response

4 MPPT Trackers | **160%** DC Input Oversizing

Safe • Reliable

Intelligent Fault Detection
AFCI Function (Optional)
Smart I-V Curve Diagnosis Function

IP66 Protection | **DC & AC Type II** Surge Protection

Easy to Operate and Maintain, Smart Choice
Support RS485 (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones

| Module | SON50KTL3 | SON50KTL3X | SON60KTL3 | SON60KTL3X | SON66KTL3 | SON70KTL3 |
|-------------------------------------|---|-----------------|-----------------|-----------------|-------------|-----------|
| Input (DC) | | | | | | |
| Max. Input Power | 80kW | | 96kW | | 105.6kW | 112kW |
| Max. Input Voltage | 1100V | | | | | |
| Start Voltage | 250V | | | | | |
| Rated Input Voltage | 600V | | | | 700V | |
| Full-load MPPT Voltage Range | 520V ~ 850V | | | | 600V ~ 850V | |
| MPPT Voltage Range | 200V ~ 1000V | | | | | |
| Number of MPPT Trackers | 4 | | | | | |
| Number of string per MPPT | 3 / 2 / 3 / 2 | | | 3 / 3 / 3 / 3 | | |
| Max. Current per MPPT | 39A / 26A / 39A / 26A | | | 39A | | |
| Max. Short Circuit Current per MPPT | 48A / 32A / 48A / 32A | | | 48A | | |
| Output (AC) | | | | | | |
| Max. Output Current | 79.7A | 66.2A | 95.6A | 79.4A | 87.4A | 92.6A |
| Rated Output Power | 50kW | | 60kW | | 66kW | 70kW |
| Max. Output Power | 55kVA | | 66kVA | | 72.6kVA | 77kVA |
| Rated Grid Frequency | 50Hz / 60Hz | | | | | |
| Rated Grid Voltage | 230Vac / 400Vac | 277Vac / 480Vac | 230Vac / 400Vac | 277Vac / 480Vac | | |
| Power Factor | >0.99 (0.8 leading~0.8 lagging) | | | | | |
| THDi | <3% (Rated Power) | | | | | |
| Efficiency | | | | | | |
| Max. Efficiency | 98.70% | | | 98.80% | | |
| European Efficiency | 98.40% | | | | 98.50% | |
| MPPT Efficiency | 99.90% | | | | | |
| Protection | | | | | | |
| DC reverse polarity protection | Yes | | | | | |
| Anti-islanding protection | Yes | | | | | |
| AC short circuit protection | Yes | | | | | |
| Residual current monitoring unit | Yes | | | | | |
| Insulation resistance monitoring | Yes | | | | | |
| Ground fault monitoring | Yes | | | | | |
| Grid monitoring | Yes | | | | | |
| PV string monitoring | Yes | | | | | |
| Surge protection | Type II | | | | | |
| AFCI protection | Optional | | | | | |
| Communication | | | | | | |
| Display | LED+APP LCD (optional) | | | | | |
| Communication | Standard : RS485 Optional : WiFi / GPRS / Ethernet | | | | | |
| Standard Compliance | | | | | | |
| Grid Connection Standards | IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI 0-21, CEI 0-16, C10/C11, VDE 4105, VDE 0124, G99, RD244, UNE217001, UNE217002, NC RfG, NRS097-2-1, NB/T 32004 | | | | | |
| General Data | | | | | | |
| Dimensions (W x H x D) | 650 x 450 x 260 mm | | | | | |
| Weight | 50kg | | | | | |
| Operating Temperature Range | -30°C ~ +60°C | | | | | |
| Cooling Method | Smart Cooling | | | | | |
| Protection Degree | IP66 | | | | | |
| Max. Operating Altitude | 4000m | | | | | |
| Relative Humidity | 0 ~ 100% | | | | | |
| Topology | Transformerless | | | | | |
| Night Power Consumption | <1W | | | | | |