

SON 3-10KTL

Single Phase On-Grid Solar Inverter



www.solarin.be



10-Year Warranty

Optional: 15, 20, and 25 years

Efficient • Productive

Max. Efficiency 98.3%
Wide MPPT Voltage Range: 80-560V
High Single Circuit Tracking Accuracy, Fast Dynamic Response

2

MPPT Trackers

150%

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

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

Module	SON3KTL	SON3K6TL	SON4KTL	SON4K2TL	SON4K6TL	SON5KTL	SON6KTL	SON7KTL	SON8KTL	SON10KTL	SON7KTL-S	SON8KTL-S	SON10KTL-S
Input (DC)													
Max. Input Power	4.5kW	5.52kW	6kW	6.3kW	6.9kW	7.5kW	9kW	10.5kW	12kW	15kW	10.5kW	12kW	15kW
Max. Input Voltage	600V												
Start Voltage	80V												
Rated Input Voltage	360V												
Full-load MPPT Voltage Range	120V ~ 480V	135V ~ 480V	145V ~ 480V	150V ~ 480V	160V ~ 480V	170V ~ 480V	190V ~ 480V	230V ~ 480V	250V ~ 480V	290V ~ 480V	230V ~ 480V	250V ~ 480V	290V ~ 480V
MPPT Voltage Range	80V ~ 560V												
Number of MPPT Trackers	2												
Number of String per MPPT	1/1										1/2		
Max. Current per MPPT	20A										14A / 28A		
Max. Short Circuit Current per MPPT	26A										18.2A / 36.4A		
Output (AC)													
Max. Output Current	15A	16A	20A	21A	23A	25A	30A	35A	40A	45.5A	35A	40A	45.5A
Rated Output Power	3kW	3.68kW	4kW	4.2kW	4.6kW	5kW	6kW	7kW	8kW	10kW	7kW	8kW	10kW
Max. Output Power	3.3kVA	3.68kVA	4.4kVA	4.62kVA	5kVA	5.5kVA	6.6kVA	7.7kVA	8.8kVA	10kVA	7.7kVA	8.8kVA	10kVA
Rated Grid Frequency	50Hz / 60Hz												
Rated Grid Voltage	220Vac / 230Vac / 240Vac												
Power Factor	>0.99 (0.8 leading~0.8 lagging)												
THDi	<3% (Rated Power)												
Efficiency													
Max. Efficiency	98.10%		98.30%					98.10%					
European Efficiency	97.30%		97.40%					97.30%					
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							LCD / LED+APP						
Communication							Standard : RS485 Optional: WiFi / GPRS / Ethernet						
Standard Compliance													
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI0-21, C10/C11, G98/G99, RD244, UNE217001, UNE217002, TOR Erzeuger, AS4777, ABNT, NB/T 32004												
General Data													
Dimensions (W x H x D)	380 x 380 x 160 mm												
Weight	13kg												
Operating Temperature Range	-30°C ~ +60°C												
Cooling Method	Natural									Smart Cooling			
Protection Degree	IP66												
Max. Operating Altitude	4000m												
Relative Humidity	0 ~ 100%												
Topology	Transformerless												
Night Power Consumption	<1W												