

# SON 17-25KTL3

Three Phase On-Grid Solar Inverter



Belgian Technology  
Up to 15-Year Warranty

[www.solarin.be](http://www.solarin.be)

## Efficient • Productive

Max. Efficiency 98.4%  
Wide MPPT Voltage Range: 200-1000V  
High Single Circuit Tracking Accuracy, Fast Dynamic Response

**2** 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

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

Module	SON17KTL3	SON20KTL3	SON22KTL3	SON25KTL3
<b>Input (DC)</b>				
Max. Input Power	27.2kW	32kW	35.2kW	40kW
Max. Input Voltage	1100V			
Start Voltage	250V			
Rated Input Voltage	600V			
Full-load MPPT Voltage Range	480V ~ 800V		520V ~ 800V	560V ~ 800V
MPPT Voltage Range	200V ~ 1000V			
Number of MPPT Trackers	2			
Number of String per MPPT	2 / 2			2 / 3
Max. Current per MPPT	32A			32A / 48A
Max. Short Circuit Current per MPPT	40A			40A / 60A
<b>Output (AC)</b>				
Max. Output Current	27.2A	32.1A	35.3A	39.8A
Rated Output Power	17kW	20kW	22kW	25kW
Max. Output Power	18.8kVA	22.2kVA	24.4kVA	27.5kVA
Rated Grid Frequency	50Hz / 60Hz			
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE			
Power Factor	>0.99 (0.8 leading-0.8 lagging)			
THDi	<3% (Rated Power)			
<b>Efficiency</b>				
Max. Efficiency	98.40%			
European Efficiency	98.00%			
MPPT Efficiency	99.90%			
<b>Protection</b>				
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			
<b>Communication</b>				
Display	LED / APP LCD (optional)			
Communication	Standard : RS485 Optional: WiFi / GPRS / Ethernet			
<b>Standard Compliance</b>				
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC60068, IEC61683, EN 50549, IEC61727/IEC62116, CEI 0-21, C10/C11, VDE 4105, VDE 0124, RD244, UNE217001, UNE217002, NC RfG, AS4777, NB/T 32004			
<b>General Data</b>				
Dimensions (W x H x D)	534 x 440 x 220 mm			
Weight	24kg			
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			