

SON 17-25KTL3

Three Phase On-Grid Solar Inverter



10-Year Warranty

Optional: 15, 20, and 25 years

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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
Input (DC)				
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
Output (AC)				
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)			
Efficiency				
Max. Efficiency	98.40%			
European Efficiency	98.00%			
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				
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			
General Data				
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			