

# SON 3-15KTL3

Three Phase On-Grid Solar Inverter



Belgian Technology  
Up to 15-Year Warranty

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

## Efficient • Productive

Max. Efficiency 98.7%  
Wide MPPT Voltage Range: 180-1000V  
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 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	SON3KTL3	SON4KTL3	SON5KTL3	SON6KTL3	SON8KTL3	SON9KTL3	SON10KTL3	SON11KTL3	SON12KTL3	SON15KTL3-X
<b>Input (DC)</b>										
Max. Input Power	4.8kW	6.4kW	8kW	9.6kW	12.8kW	14.4kW	16kW	17.6kW	19.2kW	24kW
Max. Input Voltage	1100V									
Start Voltage	160V									
Rated Input Voltage	600V									
Full-load MPPT Voltage Range	200V ~ 850V				360V ~ 850V			380V ~ 850V		450V ~ 850V
MPPT Voltage Range	180V ~ 1000V									
Number of MPPT Trackers	2									
Number of String per MPPT	1									1/2
Max. Current per MPPT	14A/14A									14A/28A
Max. Short Circuit Current per MPPT	18A/18A									18A/36A
<b>Output (AC)</b>										
Max. Output Current	4.8A	6.4A	8A	9.6A	12.8A	14.4A	15.9A	17.5A	19.1A	23.9A
Rated Output Power	3kW	4kW	5kW	6kW	8kW	9kW	10kW	11kW	12kW	15kW
Max. Output Power	3.3kVA	4.4kVA	5.5kVA	6.6kVA	8.8kVA	9.9kVA	11kVA	12.1kVA	13.2kVA	16.5kVA
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%				98.70%					
European Efficiency	98.30%				98.50%					
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									
Surge protection	Type II									
AFCI protection	Optional									
<b>Communication</b>										
Display	LED / LCD (Optional)									
Communication	Standard : RS485 / USB Optional : WiFi / GPRS / Ethernet									
<b>Standard Compliance</b>										
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC61683, IEC60068, IEC61727/IEC62116, EN50549, CEI0-21, C10/C11, VDE 4105, VDE 0124, G98/G99, RD244, UNE217001, UNE217002, NC RFG, TOR Erzeuger, AS4777, ABNT, NB/T 32004									
<b>General Data</b>										
Dimensions (W x H x D)	481 x 395 x 195 mm									
Weight	12kg				13.5kg					
Operating Temperature Range	-25°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									

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<b>Input (DC)</b>										
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MPPT Voltage Range	180V ~ 1000V									
Number of MPPT Trackers	2									
Number of String per MPPT	1									
Max. Current per MPPT	18A									
Max. Short Circuit Current per MPPT	25A									
<b>Output (AC)</b>										
Max. Output Current	4.8A	6.4A	8A	9.6A	12.8A	14.4A	15.9A	17.5A	19.1A	23.9A
Rated Output Power	3kW	4kW	5kW	6kW	8kW	9kW	10kW	11kW	12kW	15kW
Max. Output Power	3.3kVA	4.4kVA	5.5kVA	6.6kVA	8.8kVA	9.9kVA	11kVA	12.1kVA	13.2kVA	16.5kVA
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