

SON 100-136KTL3

Three Phase On-Grid Solar Inverter



www.solarin.be



Belgian Technology
Up to 15-Year Warranty

Efficient • Productive

Max. Efficiency 98.7%
Wide MPPT Voltage Range: 180-1000V
High Single Circuit Tracking Accuracy, Fast Dynamic Response

9-12

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

Easy to Operate and Maintain, Smart Choice

Support RS485 (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones

Module	SON100KTL3	SON100KTL3X	SON110KTL3	SON110KTL3X	SON136KTL3X1	SON136KTL3X2	SON136KTL3X3	SON136KTL3X4
Input (DC)								
Max. Input Power	150kW				160kW			
Max. Input Voltage					1100V			
Start Voltage					250V			
Rated Input Voltage	620V				730V		780V	
Full-load MPPT Voltage Range	530V ~ 850V				560V ~ 850V			
MPPT Voltage Range	180V ~ 1000V							
Number of MPPT Trackers	9		10		12			
Number of String per MPPT	2							
Max. Current per MPPT	26A	30A	26A	30A	26A	30A	26A	30A
Max. Short Circuit Current per MPPT	40A							
Output (AC)								
Max. Output Current	158.8A		174.6A				160.4A	
Rated Output Power	100kW		110kW		136kW			
Max. Output Power	110kVA		121kVA		150kVA			
Rated Grid Frequency	50Hz / 60Hz							
Rated Grid Voltage	230Vac / 400Vac, 3L / N / PE, 3L / PE				277Vac / 480Vac, 3L / N / PE, 3L / PE		311Vac / 540Vac, 3L / N / PE, 3L / PE	
Power Factor	>0.99 (0.8 leading~0.8 lagging)							
THDi	<3% (Rated Power)							
Efficiency								
Max. Efficiency	98.70%							
European Efficiency	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							
PID recovery function	Optional							
SVG function	Optional							
Communication								
Display	LCD (optional) / LED+App							
Communication	Standard : RS485 Optional : WiFi / DRM / Bluetooth							
Standard Compliance								
Certification	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, IEC/EN 61000-6-2/4, EN50549, IEC61727/IEC62116, CEI 0-21/CEI 0-16, C10/C11, VDE 4105, VDE 0124, G99, RD244, UNE217001, UNE217002, NC RfG, TOR Erzeuger, NRS097-2-1, NB/T 32004							
General Data								
Dimensions (W x H x D)	1050 x 660 x 330 mm							
Weight	95kg		98kg		101kg			
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							