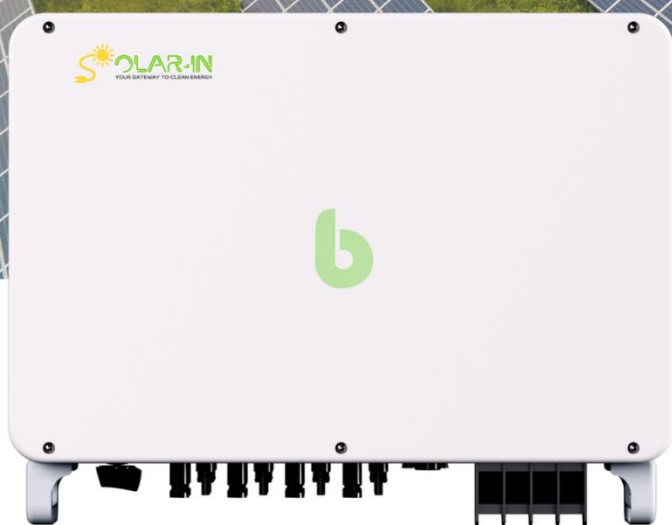


SON 50-70KTL3

Three Phase On-Grid Solar Inverter



www.solarin.be



10-Year Warranty

Optional: 15, 20, and 25 years

Efficient • Productive

Max. Efficiency 98.8%
Wide MPPT Voltage Range: 200-1000V
High Single Circuit Tracking Accuracy, Fast Dynamic Response

4

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

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

Module	SON50KTL3	SON50KTL3X	SON60KTL3	SON60KTL3X	SON66KTL3	SON70KTL3
Input (DC)						
Max. Input Power	80kW		96kW		105.6kW	112kW
Max. Input Voltage	1100V					
Start Voltage	250V					
Rated Input Voltage	600V				700V	
Full-load MPPT Voltage Range	520V ~ 850V				600V ~ 850V	
MPPT Voltage Range	200V ~ 1000V					
Number of MPPT Trackers	4					
Number of string per MPPT	3 / 2 / 3 / 2		3 / 3 / 3 / 3			
Max. Current per MPPT	39A / 26A / 39A / 26A		39A			
Max. Short Circuit Current per MPPT	48A / 32A / 48A / 32A		48A			
Output (AC)						
Max. Output Current	79.7A	66.2A	95.6A	79.4A	87.4A	92.6A
Rated Output Power	50kW		60kW		66kW	70kW
Max. Output Power	55kVA		66kVA		72.6kVA	77kVA
Rated Grid Frequency	50Hz / 60Hz					
Rated Grid Voltage	230Vac / 400Vac	277Vac / 480Vac	230Vac / 400Vac	277Vac / 480Vac		
Power Factor	>0.99 (0.8 leading~0.8 lagging)					
THDi	<3% (Rated Power)					
Efficiency						
Max. Efficiency	98.70%		98.80%			
European Efficiency	98.40%				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					
Communication						
Display	LED+APP LCD (optional)					
Communication	Standard : RS485 Optional : WiFi / GPRS / Ethernet					
Standard Compliance						
Grid Connection Standards	IEC/EN 62109-1/2, IEC/EN 61000-6-1/3, EN50549, IEC61727/IEC62116, CEI 0-21, CEI 0-16, C10/C11, VDE 4105, VDE 0124, G99, RD244, UNE217001, UNE217002, NC RfG, NRS097-2-1, NB/T 32004					
General Data						
Dimensions (W x H x D)	650 x 450 x 260 mm					
Weight	50kg					
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					