

## Grid-Tied Solar Inverter **50KW - 60KW**

**IP**

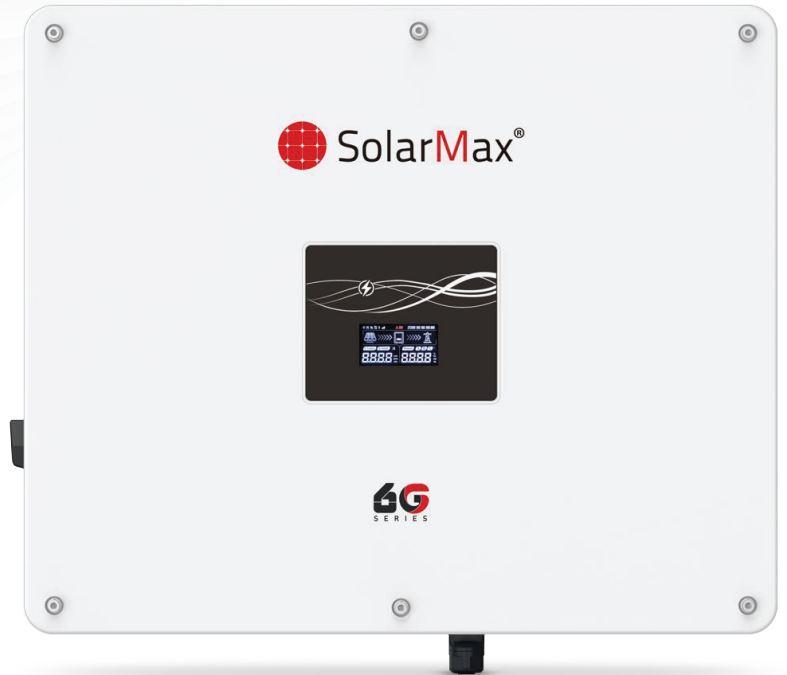
Ingress  
Protection

**6**

Solids  
(Dust Protection)

**6**

Liquids  
(Water etc)



### **Superior Performance**

- Maximum efficiency of 98.3%
- Large string current, compatible with large PV modules
- Wide voltage range, compatible with various power grids
- Compact for easy installation



### **HIGH RELIABILITY**

- IP66 protection level for outdoor installation
- Surge Arrester DC type III / AC type III
- Insulation Detection, Leakage current protection, Anti-Islanding protection, AC over current protection, AC short circuit protection, DC reverse protection



### **INTELLIGENT MAINTENANCE**

- Built-in Bluetooth and Wifi Dongle
- Power consumption monitoring
- Remote configuration and upgrade
- Quick commissioning via mobile app
- Multiple I/O and communication configurations

**5 YEAR WARRANTY**  
Unlimited Parts / Replacement

Model	SM-50K-6G3P	SM-60K-6G3P
<b>Efficiency</b>		
Max. Efficiency	98.5%	98.6%
European Efficiency	97.9%	98.0%
<b>Input(PV)</b>		
Max. Input Voltage	1100V	
Max. PV Configuration (STC)	150%	
Rated Input Voltage	620V	
Max. Input Current	32A/32A/32A/40A	
Max.Short Circuit Current	45A/45A/45A/50A	
Start Input Voltage	200V	
MPPT Operating Voltage Range	180V-1000V	
Max. Number of PV Strings	2/2/2/2	2/2/2/2
No. of MPPTs	4	
<b>Output(Grid)</b>		
Rated AC Active Power	50,000W	60,000W
Max. AC Apparent Power	55,600VA	66,700VA
Max. AC Output Current	3x84.3A	3x92A
Rated AC Voltage	380V / 400V / 415V, 3W+N+PE	
AC Voltage Range	320V-520V (Adjustable)	
Rated Grid Frequency	50Hz / 60Hz	
Grid Frequency Range	45Hz-55Hz / 55Hz-65Hz (Adjustable)	
THDI	<3%@Rated Power	
DC Current Injection	<0.5%@Rated Current	
Power Factor	>0.99 Rated power (Adjustable 0.8 LD - 0.8 LG)	
<b>Protection</b>		
DC Switch	Yes	
Anti-Islanding Protection	Yes	
AC Overcurrent Protection	Yes	
AC Short Circuit Protection	Yes	
DC Reverse Protection	Yes	
Surge Arrester	DC Type III / AC Type III	
Insulation Detection	Yes	
Leakage Current Protection	Yes	
PV String Monitoring	Optional	
Consumption Monitoring	Optional	
<b>General</b>		
Topology	Transformerless	
IP Rating	IP66	
Night Self Consumption	<1W (Standard)	
Cooling	Fan cooling	
Operating Temperature Range	-25° - 60°	
Relative Humidity Range	0-100%	
Max. Operating Altitude	4000m	
Dimensions (W*H*D)	635mm*530mm*224mm	635mm*530mm*233mm
Weight	42Kg	
<b>HMI &amp; COM</b>		
Display	Wireless & APP+LED, LCD (Optional)	
Communication	RS485, Optional: WiFi / GPRS / LAN	
<b>Certification</b>		
Safety	IEC62109-1, IEC62109-2	
Grid Code	VDE-AR-N 4105, EN 50549-1, CEI 0-21, UNE 206006/206007-1, RD 1699/661&413, IEC 61727/62116, CQC	IEC 61727/62116, IEC 61683, CQC
Warranty	5 Years (10 Year Optional)	

Remarks: ①②The range of output voltage and frequency may vary depending on different grid codes. Specifications are subject to change without advanced notice.