

MODEL SG-6KWAC

INVERTERS



Efficiency	
Max Efficiency	94.0%
Input (BAT)	
Battery type	Lithium-ion / Lead-acid
Nominal battery voltage	48V
Battery voltage range	40V-60V
Max charge / discharge current	120A / 120A
Max charge/ discharge tension	6000W / 6000W
Lead-Acid Battery Charge Curve	Self-adaption to BMS
Output (GRID)	
Rated AC output power	6000W
Max Apparent AC Output Power	6000VA
Max. AC output Power	6000W
Max. AC output current	27.2A
Rated AC voltage	220V
AC voltage range	150V-300V (Adjustable)
Nominal grid frequency	50Hz / 60Hz
AC frequency range	45Hz-55Hz/55Hz-65Hz (Adjustable)
Network connection	Single phase
Power Factor	> 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)
THDI	<3% (Rated Power)
Output (Back up)	
Nominal Output Voltage	230V
Nominal Output Frequency	50Hz / 60Hz
Nominal Output Power	5000W
Nominal Output current	21.7A
Switching time (typical)	10ms (typ), 20ms (max)
THDV	<3% @100% R Load
Protection	
Protection category	Class I
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
AC short circuit Protection	Yes
Surge arrester	AC Type III
Leakage current protection	Yes
AC overvoltage category	III
General	
Max. operating altitude	4000m
Noise (typical)	<35dB
IP rating	IP65
Operating Temperature range	-25°C-60°C
Relative humidity range	0-100%
Cooling	Natural Cooling
Mounting	Wall bracket
Dimensions (W*H*D)	515mm*485mm*175mm
Weight	20Kg
PV connector	Dedicated DC connector
AC connector (grid & backup)	Dedicated AC connector
HMI & COM	
Display	LED+APP
Communication interface	RS485/CAN (for BMS), RS485, USB, DRM/RS485 (for Meter), Optional: WiFi/GPRS/LAN
Certification	
Grid	IEC 61000-1/2/3/4, G99, NRS 097, EN 50549-1, IEC 61727/62116, CEI 021
Safety	IEC 62109-1/2
Warranty	5 / 10 years (optional)

*The output voltage and frequency range may vary according to different grid codes.

*Specifications are subject to change without notice.

designed in Italy