

PSiH12KW#600VPVI

Features:

- >> Wide DC working voltage range, 2 MPPT design, adapt to multi-angle and multi-orientation PV panels
- >> Up to 98% conversion efficiency with lower losses
- >> IP65 Waterproof design, indoor & outdoor use
- >> One machine for multiple purposes: On-grid+ Energy storage+Off-grid
- >> Support the diesel generator and the grid access at the same time
- >> Up to 7 Intelligent working modes, support remote monitoring on APP/Web
- >> Support for lead-acid, lithium batteries, but also to specify the brand of battery adaptation communication
- >> Colorful touch LCD (4.3/7 inch optional)



Technical Specifications

Technical Data		PSiH12KW#600VPVI
PV String Input Data		
Max. PV access power		24kW
Max. PV input power		19.2kW
Max. PV input voltage		600V
Nominal input voltage		360V
MPPT working voltage range		80V-500V
Number of independent MPPT/strings per MPPT		4/1
MPPT max. current		4*20A
Start-up voltage		100V
AC Output/Input Data (On-grid)		
Nominal apparent power		12kW
Max. apparent power		13.2kVA
Nominal voltage		220V/230V
Nominal frequency		50Hz/60Hz
Rated current		54.5A/52.2A
Max. current		60A
Power factor		-0.8~+0.8 (adjustable)
THDi		<3%(Nominal Output)
Grid system pattern		L+N+PE
Max. AC current from utility grid		100A
Back-up Output Data (UPS)		
Nominal output power		12kW
Max. output apparent power		13.2kVA
Nominal output voltage		220V/230V
Nominal output frequency		50Hz/60Hz
Output THDV		<3%
Automatic switch time		<10ms
Battery Input Data		
Battery type		Li-ion/Lead-acid
Battery voltage range		40V~60V
Max.charging /discharging current		240A
Charging strategy for Li-ion battery		Self-adaption to BMS
Charging strategy for Lead-acid battery		Three-stage
Efficiency		
Max. MPPT efficiency		99.9%
Europe efficiency		97.5%
Max. battery to load efficiency		94.5%
Protection		
Anti islanding protection		Yes
Insulation impedance protection		Yes
RCD detection		Yes
PV reverse polarity protection		Yes
Output over voltage protection		Yes
Output over current protection		Yes
General Data		
Dimensions(L/W/H)in mm		425/290/660
Weight		39kg
Operation temperature range		-25°C 60°C
Heat dissipation mode		Smart cooling
IP Class		IP 66
Maximum altitude		4000m
Self-Consumption night		<3W
Topology		Transformerless
Features		
LCD display		Yes
Communication interface		WiFi/4G/USB/CAN/RS485