

**PSiH10KW#550VPVI****Features:**

-  Equipped with GEN port, compatible with diesel generators, smart loads, and AC coupling.
-  Color touch screen (4.3/7" optional).
-  Integrated 0-export function.
-  Compatibility with lead-acid and Li-ion batteries, supports various brands of lithium batteries.
-  Supports PV array input up to 160% of rated inverter power.
-  Low startup voltage threshold, wide operating voltage range.



Technical Specifications

Technical Data		PSiH10KW#550VPVI
Input DC (PV side)		
Max. PV access power		20kW
Max. PV input power		16kW
Max. PV input voltage		550V
Nominal input voltage		360V
MPPT Working Voltage Range		80-500V
Number of independent MPPT / strings per MPPT		2/2
MPPT max. current		36A/36A
Start-up voltage		120V
Output/Input AC (Grid side)		
Nominal apparent power		10kW
Max. apparent power		11kVA
Nominal voltage		220V/230V
Nominal frequency		50Hz/60Hz
Rated current		45.4A/43.4A
Max. current		50A
Power factor		-0.8~+0.8 (adjustable)
THDi		<3% (Nominal Output)
Grid system pattern		L+N+PE
Max. AC current from utility grid		80A
Output AC (Back-up)		
Nominal output power		10kW
Max. output apparent power		11kVA
Nominal output voltage		220V/230V
Nominal output frequency		50Hz/60Hz
Output THDV		<3%
Automatic switch time		<10ms
Battery		
Battery type		Li-ion/Lead-acid
Battery voltage range		40V-60V
Max. charging/discharging current		180A
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		375/265/513
Weight		27kg
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