

SINGLE-PHASE
HYBRID INVERTER**HI-12K-SL**

Equipped with GEN port, compatible with diesel generators, smart loads, and AC coupling.



Color touch screen (4.3"/7" optional).



Integrated O-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 Data	HI-12K-SL
INPUT DC (PV SIDE)	
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
OUTPUT/INPUT AC (GRID SIDE)	
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
OUTPUT AC (BACK-UP)	
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	
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
EFFICIENCY	
Max. MPPT efficiency	99.9%
Europe efficiency	97.5%
Max. battery to load efficiency	94.5%
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
FEATURES	
LCD display	Yes
Communication interface	WiFi/4G/USB/CAN/RS485