









SINGLE-PHASE
HYBRID INVERTER

HI-8K-SL

-  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 Data | HI-8K-SL |
|---|-------------------------|
| INPUT DC (PV SIDE) | |
| Max. PV access power | 16kW |
| Max. PV input power | 12.8kW |
| 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 | 8kW |
| Max. apparent power | 8.8kVA |
| Nominal voltage | 220V/230V |
| Nominal frequency | 50Hz/60Hz |
| Rated current | 36.4A/34.7A |
| Max. current | 40A |
| 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 | 8kW |
| Max. output apparent power | 8.8kVA |
| 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 | 190A |
| 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 | Trans |
| FEATURES | |
| LCD display | Yes |
| Communication interface | WiFi/4G/USB/CAN/RS485 |