

Hybrid Inverter

Characteristics

- Solar, battery and utility power sources
- Flexible & programmable operating modes
- Smart energy management
- Soft-switching technology, DSP control technology
- Small footprint, light weight, simplified installation
- High Efficiency 96%
- Backflow prevention
- Flexible adaptation of Lithium battery
- Battery management
- Intelligent real-time monitoring



MODEL	SHB3600
Rated power	3000 W
Operating modes	Flexible setting via upper computer software or LCD interface
PV INPUT	
Max. input power	4500 W
Max. input voltage	500 Vdc
Rated input voltage	360 Vd
Start-up voltage	115 Vdc
Max. input current	18 A
MPPT voltage range (Full load)	120 Vdc ~ 450 Vdc (250 Vdc ~ 450 Vdc)
Number of MPPTs	1
AC OUTPUT	
Rated AC power	3600 VA / 3600 W
Rated output voltage	230 Vac
Output voltage range	170 ~ 280 Vac
Rated output frequency	50 / 60 Hz
Output frequency range	50 ± 5 / 60 ± 5 Hz
Rated output current	15.6 A
Power factor	0.9 (leading) ~ 0.9 (lagging)
THDi	≤ 3%
EPS OUTPUT	
Rated EPS power	3000 VA / 3000 W
Rated EPS voltage	230 Vac (208 / 220 / 240 Vac settable)
Rated EPS current	13.0 A (14.4 A / 13.6 A / 12.5 A)
EPS voltage range	184 ~ 276 Vac
EPS frequency range	50 / 60 Hz ± 1%
THDv	≤ 3% (linear load)
BATTERY	
Battery type	Li-ion, Lead-acid battery
Rated voltage	48 Vdc
Voltage range	40 ~ 58 Vdc
Charging current	Max. 25 A (5 ~ 25 A settable)
AC charge	Support
Rated discharge power	3000 W
Max. discharge current	62.5 A
TRANSFER TIME	
EPS mode → On-grid mode	0 ms
On-grid mode → EPS mode	10 ms
EFFICIENCY	
MPPT efficiency	99%
Max. PV efficiency	96%
OTHERS	
Protections	Over/under voltage, over/under-frequency, over load, short-circuit, over temperature, PV reverse polarity, leakage current, insulation resistance, islanding, fan fault
Communications	USB / RS485 (standard), SNMP / Wi-Fi / GPRS (optional)
Display	LED, LCD
Standards	EN 62109-1, IEC62109-2, EN 61000-6-2, EN 61000-6-3, VDE-AR-N 4105, DIN VDE 0126-1-1, DIN VDE V 0124-100, CEI 0-21,G83
IP rating	IP20
Operating temperature	0 ~ 40°C (> 40°C derating)
Relative humidity	0 ~ 90%
Altitude	< 1000 m (> 1000 m derating)
Noise level at 1 m	≤ 50 dB
Topology	Transformerless (PV to Grid)
Dimensions (W × D × H) (mm)	410 × 470 × 123
Packaged dimensions (W × D × H) (mm)	508 × 582 × 183
Net weight (kg)	14.4
Gross weight (kg)	16.6