

HYBRID INVERTER

PRODUCT FEATURE



High-precision

- High-precision MPPT control
- High precision meter, anti-backflow / load power consumption monitoring



Long life

- Protection level IP65
- Design life 25 years;Adapt to high temperature, high cold, high salt fog etc.



Multi-mode

- Uninterrupted switching between on-grid and off-grid
- A variety of working modes can be set, unmanned, no EMS-independent operation



Multiple configuration

- Flexible configuration, PV/grid charging mode,lithium battery/lead acid battery can be selected
- Support RS485, WiFi, GPRS monitoring mode



HHB-05K000EULV

HHB-10K000EUHV

TECHNICAL SPECIFICATION

| | HHB-05K000EULV | HHB-10K000EUHV |
|-------------------------------------|--|--|
| Input data (DC) | | |
| Max.PV power [W] | 6500 | 15000 |
| Max.DC voltage [Vd.c] | 500 | 1000 |
| Rated DC voltage [Vd.c] | 360 | 620 |
| Max.input current [Ad.c] | 16/16 | 16/16 |
| Max.short circuit current[Ad.c] | 23/23 | 23/23 |
| MPPT voltage range [Vd.c] | 90~430 | 180~900 |
| MPPT input channels | 2 | 2 |
| Battery parameter | | |
| Battery voltage range [Vd.c] | 40~60 | 160-800 |
| Rated battery voltage [Vd.c] | 48 | 580 |
| Max.charge/discharge power [W] | 5000 | 10000 |
| Max.charge/discharge current [Ad.c] | 100/100 | 50/50 |
| Battery type | Lithium battery / lead acid battery | Lithium battery / lead acid battery |
| Input/Output(AC) | | |
| Rated grid power[VA] | 5000 | 10000 |
| Rated voltage [Va.c] | 220/230 | 400/380 |
| Frequency[Hz] | 50/60 | 50/60 |
| Rated grid current[Aa.c] | 22.8 | 14.5 |
| Max.input current[Aa.c] | 10000 | 11000 |
| Power Factor | 0.8cap~0.8ind | 0.8cap~0.8ind |
| THD[Stable Power] | <3% | <3% |
| Output load(Battery) | | |
| Rated Backup Power[W] | 5000 | 10000 |
| Rated grid voltage [Va.c] | 230/220 | 400/380 |
| Electrical connections | 1/N/PE | 3/N/PE |
| Frequency[Hz] | 50/60 | 50/60 |
| Rated current[Aa.c] | 22.8 | 15.1 |
| Max.AC current[Aa.c] | 27 | 18 |
| THD[Linear load] | <3% | <3% |
| Switch time [ms] | <10 | <15 |
| Efficiency | | |
| MPPT efficiency[%] | 99.9 | 99.9 |
| European efficiency[%] | 97 | 97.6 |
| Max.efficiency[%] | 97.8 | 98 |
| Charge/discharge efficiency[%] | 95 | 96 |
| Consumption | | |
| Standby consumption[W] | <25 | <25 |
| Environment | | |
| IP Grade | IP65 | IP65 |
| Protection level | ClassI | ClassI |
| Operating Temperature | -25 ~ 60 (>+45°C,Derating) | -25 ~ 60 (>+45°C,Derating) |
| Altitude[m] | <2000 | <2000 |
| Storage temperature | -25 ~ 60 | -25 ~ 60 |
| Noise emission[dB] | <30 | <30 |
| Overvoltage level | DC II ;ACIII | DC II ;ACIII |
| Size&Weight | | |
| Size[W*H*D] | 481 (W) *481 (H) *189 (D) | 556(W)*545(H)*178(D) |
| Weight[kg] | <20 | <24 |
| General parameters | | |
| Cooling method | Natural Cooling | Natural Cooling |
| Isolation type | Battery high-frequency transformer isolation | Battery high-frequency transformer isolation |
| Communication | WIFI, GPRS (optical) , RS485 | WIFI, GPRS(optical), RS485 |
| Indicator light | LED | LED |