

# HYBRID INVERTER

## PRODUCT FEATURE

### High-precision

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

### Long life

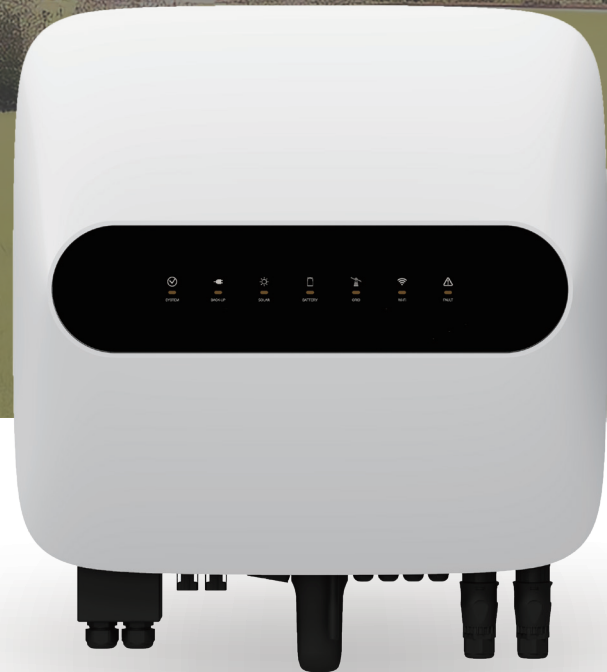
- Protection level IP65
- Design life 25 years;Adapt to high temperature, high cold, high salt fog etc.

### 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-05K000CRLV

HHB-10K000CRHV

## TECHNICAL SPECIFICATION

	HHB-05K000CRLV	HHB-10K000CRHV
<b>PV Input(DC)</b>		
Max. PV power [W]	6000	14000
Max. DC voltage [Vd.c]	580	1000
Rated DC voltage [Vd.c]	420	720
Max. PV input current [Ad.c]	12.5/12.5	11/11
MPPT voltage range [Vd.c]	125-550	200-880
MPPT input channels	2	2
<b>Battery Side Data</b>		
Battery voltage range [Vd.c]	40-58	180-800
Rated battery voltage [Vd.c]	48	400
Max charge/discharge power [W]	4200/5000	10000/10000
Max charge/discharge current [Ad.c]	70/100	25/25
<b>Grid AC Data</b>		
Rated grid power[VA]	5000	10000
Rated voltage [ Va.c]	220/230	400/230;380/220
Frequency[Hz]	50/60	50/60
Rated AC current[Aa.c]	21.7	14.5
Max. AC current[Aa.c]	22.8	16.7
Power Factor	0.8cap...0.8ind	0.8cap...0.8ind
THD[Stable Power]	<3%	<3%
<b>Load Output(With Battery)</b>		
Rated backup power[W]	4600	10000
Rated grid voltage [Va.c]	220/230	400/380
Frequency[Hz]	50/60	50/60
Rated current[Aa.c]	21.7	14.5
Max. AC current[Aa.c]	22.8	16
THD (Linear load)	<3%	<3%
UPS [ms]	<20	<20
Peak Power @25 °C	6.9kW*10s;8kW*0.5s	11kW*30min;13kW*5min;15kW*5s
<b>Efficiency</b>		
MPPT efficiency[%]	99.9	99.9
European efficiency[%]	97	97
Max efficiency [%]	97.6	97.8
Charge/discharge efficiency[%]	95/94	97.6/96
<b>Protective Function</b>		
PV reverse-polarity protection	Yes	Yes
Anti-islanding	Yes	Yes
Residual current protection	Yes	Yes
AC short-circuit protection	Yes	Yes
AC over current/voltage protection	Yes	Yes
Insulation monitoring	Yes	Yes
Integrated DC Switch	Yes	Yes
<b>General Data</b>		
Size(W*H*D)(mm)	495*516*152	548*550*188
Weight (kg)	<30	<40
Standby consumption (W)	<20	<20
IP Grade	IP 65	IP 65
Working temperature (°C)	-25...+60	-25...+60
Altitude(m)	<2000	<2000
Noise emission (dB)	<30	<30
Cooling	Natural-cooling	Natural-cooling
Communication interface	WiFi,GPRS(optional), RS485	WiFi,GPRS(optional), RS485
Display	LED	LED