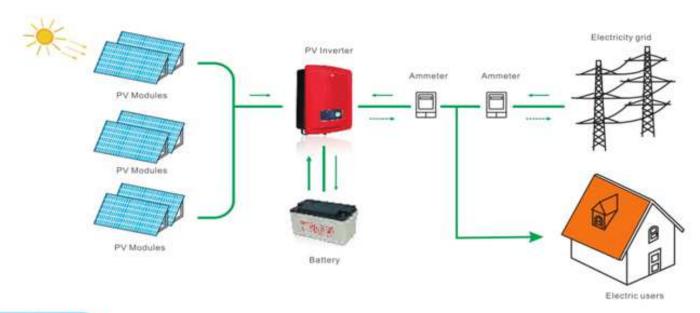
Hybrid (Bi-direction) Solar Inverter

1KW ~ 3KW (with isolated transformer)
PF = 1







Features

- PV energy combined with flexible energy storage systems: enable households to store surplus electricity generated by solar panel array, and power not being utilised can be exported to the mains grid.
- Advanced MPPT algorithm
- Built-in transfomer to ensure electric safety
- Intelligent battery management, configurable charging current
- Effective protections: overload, short circuit, overdischarge, overcharge, battery reverse polarity, PV reverse polarity protections
- No PID attenuation damage for solar panels to ensure its service life
- Unique ECO mode, daily consumption less than 1% at no-load standby
- Staggering energy storage and power generation

Specifications

MODEL	HE1K	HE2K	HE3K
Rated power	1 KW	2 KW	3 KW
Output power factor		1	
Operating mode	Grid-connected mode / backflow prevention mode (settable)		
PV INPUT			
Max. input voltage (Voc)	150 Vdc		
Optimum operating voltage (Vmp)	70 ~ 115 Vdc		
Max. conversion efficiency	≥ 98%		
Max. charging current	23 ± 2 A	48 ± 2 A	62 ± 2 A
Recommended PV configuration	≤ 1.5 KW	≤ 2.8 KW	≤ 3.5 KW
AC INPUT			
Input voltage range	170 ~ 264 Vac		
Rated Input frequency	50 Hz / 60 Hz (settable)		
Frequency range	50 Hz / 60 Hz ± 2.5 Hz		
Power factor	0.98		
Max. charging current	18 ± 2 A	38 ± 2 A	58 ± 2 A
INVERTER			
Inverter voltage	230 V (220 V / 240 V settable)		
Waveform	Sinusoidal		
THD (linear load)	≤ 3%		
Overload	 ≥ 125%: transfer to bypass in 1 min or shut down in off-grid ≥ 150%: transfer to bypass in 5 s or shut down in off-grid ≥ 180%: shut down in 0.5 s 		
Max. efficiency		≥ 85%	
BATTERIES	700	MANUS NO NUMBERS - BUT MIN DO DO 190 MIN	
Battery type	VRLA AGM maintenance-free battery		
Battery voltage	48 Vdc		
Number of battery	12V × 4 pcs 2 V × 24 pcs		
DOD (depth of discharge)	Settable		
Floating charge voltage	56 Vdc		
Charging current	0.05 C ~ 0.3 C (settable)		
Intelligent management	Auto floating c	harge, auto temperature compen-	sation (optional)
COMMUNICATIONS		2 1 7 2 2 1 2 1 2 1	v.
Remote control Communication interface	Transfer to bypass or inverter; shut down		
	RS232 / US	B / RS485 ; SNMP / WiFi / Blueto	iotn (optional)
OTHERS		40% 40%	
Operating temperature	-10°C ~ 40°C		
Max. relative humidity Max. altitude	95% (non-condensing)		
The Control of the Control of Con	1000 m at rated power (derating 1% for each additional 100 m); Max. 4000 m		
Cooling Noise level at 1 m	Forced ventilation (fan speed varies with loads)		
	≤ 50 dB (varies with loads and temperature)		
IP rating	IP21		
Dimensions (M v D v L) (mm)	400 0	480 × 380 × 202 480 × 380 × 217	
Dimensions (W × D × H) (mm)		PROPERTY SECTION ACCORDED.	PROJECT AND TOURISHES AND PROPERTY.
Dimensions (W × D × H) (mm) Packaged dimensions (W × D × H) (mm) Net weight (kg)		58 × 278	545 × 458 × 295

All specifications subject to change without notice.