

HYBRID BI-DIRECTION SOLAR INVERTER (SINGLE PHASE)

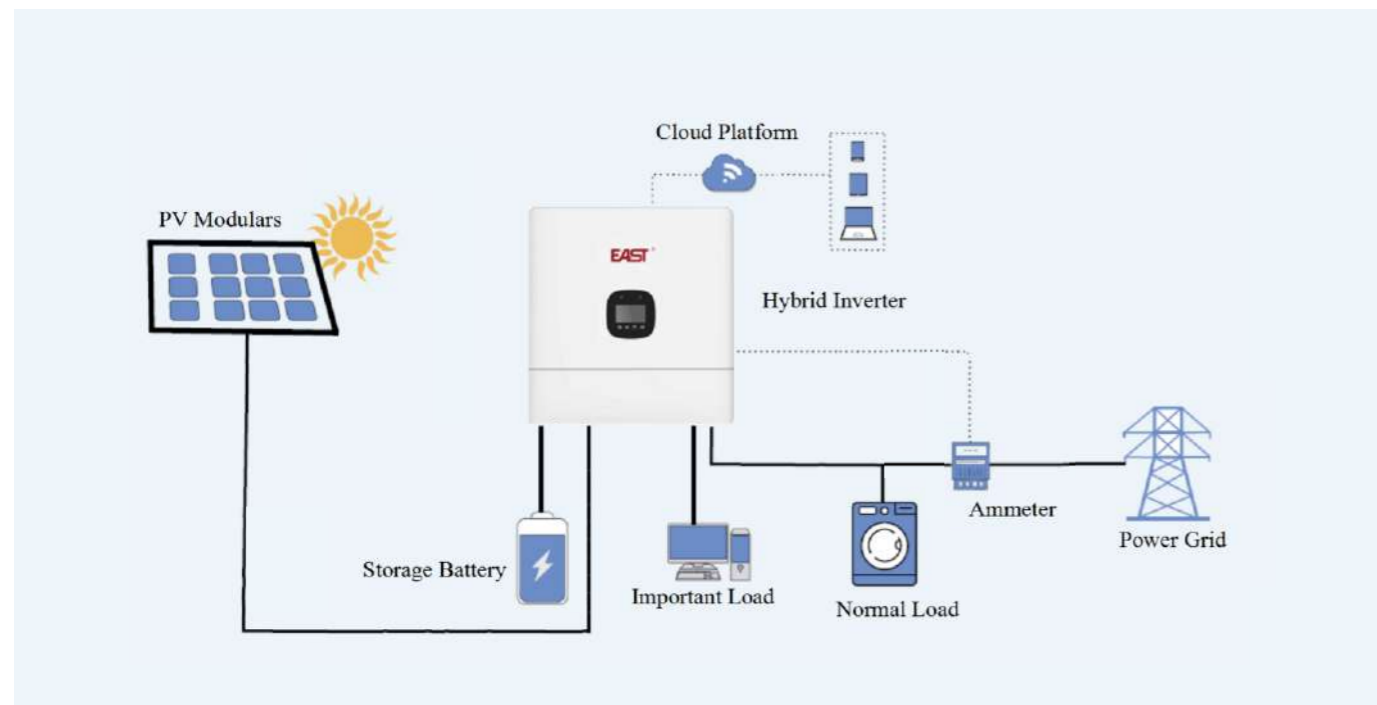
3kW-6kW



Highlights

- Natural heat dissipation, no fan, low noise
- IP65 outdoor protection grade, wall-mounted design
- Off grid and grid connected dual output, and the switching time is less than 20ms
- Energy flows in both directions, and the battery can be charged and discharged at full power
- Flexible open display menu, customers can set charging and discharging time period and power at any time, so as to facilitate time-of-use electricity price and earn income
- App flexible monitoring system, multiple upgrade program modes, with isolated USB upgrade
- Excellent off grid output performance, adaptable to air conditioning and other inductive loads
- Beautiful appearance design and reasonable space layout make the weight lighter

System Principle Diagram



MODEL	EAHI-3K	EAHI-3.6K	EAHI-5K	EAHI-6K
Rated power	3000W	3600W	5000W	6000W
Operating mode	Flexible setting via upper computer software or display screen			
PV INPUT				
Max. input power	4680W		6500W	7900W
Max. input voltage	550 Vdc			
Rated input voltage	360 Vdc			
Start-up voltage	100 Vdc			
Initial feeding voltage	150 Vdc			
MPPT voltage range(Full load)	100~540 Vdc (250~450 Vdc)			
Max. input current	15A	15A	15A / 15A	15A / 15A
Number of MPPTs	1		2	
AC OUTPUT				
Phase	Single phase(L+N+PE)			
Rated AC power	3000VA / 3000W	3600VA / 3600W	5000VA / 5000W	6000VA / 6000W
Rated output voltage	230 Vac			
Output voltage range	184~276 Vac			
Rated output frequency	50 / 60 Hz			
Output frequency range	50 ± 5 / 60 ± 5 Hz			
Rated output current	13.05 A	15.7 A	21.8 A	26.09 A
Power factor	0.8 (leading)~0.8 (lagging)			
THDI(@ Rated Power)	≤ 3%			
EPS OUTPUT				
Rated EPS power	3000 VA / 3000 W	3600 VA / 3600 W	5000 VA / 5000 W	6000 VA / 6000 W
Rated EPS voltage	230 Vac (208 / 220 / 240 Vac settable)			
Rated EPS current	13.05 A	15.7 A	21.8 A	26.09 A
EPS voltage range	184~276 Vac			
EPS frequency range	50 / 60 Hz ± 1%			
THDv	≤ 3% (linear load)			
Over capacity	110%, 60S / 120%, 30S / 150%, 10S			
Transfer time	≤ 20 ms			
BATTERY				
Battery type	Li-ion, Lead-acid battery			
Rated voltage	48 Vdc			
Voltage range	42~58 Vdc			
Charging current	Max. 66 A	Max. 75 A	Max. 100 A	Max. 100 A
AC charge	Support			
Max. charge voltage	58V (Settable)			
Max. discharge current	66 A	75 A	100 A	120 A
Charging curve	BMS (Lithium battery) 3-Stage (Lead-acid battery)			
EFFICIENCY				
Max. efficiency	97.8%			
MPPT efficiency	99.9%			
Battery charge discharge efficiency	94.3%			
OTHERS				
Protections	Over/under voltage, over/under-frequency, over load, short-circuit, over temperature, PV and battery reverse polarity, leakage current, insulation resistance, anti islanding protection			
Communications	USB / RS485 (standard), SNMP / Wi-Fi / GPRS (optional)			
Warning	LED, Buzzer			
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	IP 65			
Operating temperature	-25 ~ 60 °C (>45°C derating)			
Cooling mode	Natural cooling			
Installation mode	Wall hanging			
Relative humidity	0 ~ 90%			
Altitude	≤ 2000 m (>2000 m derating)			
Noise level at 1 m	≤ 25 dB			
Topology	Transformerless			
Dimensions (W×H×D) (mm)	548 × 440 × 197 mm			
Weight (kg)	23.4kg			