

Hybrid Inverter

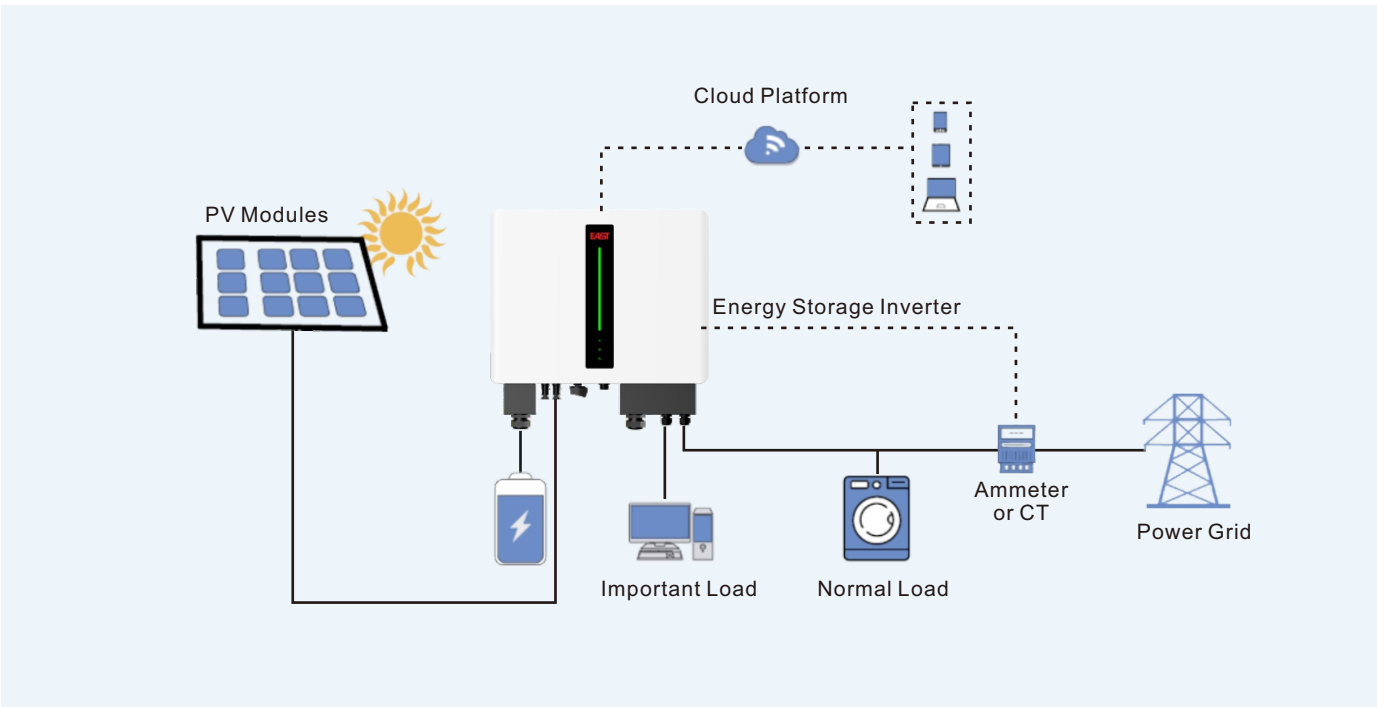
3kW-6kW



Highlights

- Elegant appearance, wall-mounted design, easy installation
- IP66 all-aluminum chassis, adaptable to outdoor environment
- Off-grid and grid connected dual output, the transfer time is less than 20ms
- High charge/discharge efficiency, compatible with lithium battery and lead-acid battery
- Flexibly settable charge/discharge time section and power, peak load shaving
- APP real time monitoring, easy maintenance
- Outstanding off-grid output performance, adaptable to various non-linear load

System Principle Diagram



MODEL	EAHI-3000-SL		EAHI-3600-SL		EAHI-5000-SL	EAHI-6000-SL
PV INPUT						
Max. input power	4680W			6500W		7800W
Max. input voltage				550Vdc		
Rated input voltage				360Vdc		
Start-up voltage				100Vdc		
Min. operating voltage				150Vdc		
MPPT voltage range				100~540Vdc		
Max. input current	16A					16A / 16A
Max. short-circuit current	24A					24A / 24A
Number of MPPT	1					2
Number of input strings per MPPT	1					1+1
BATTERY INPUT						
Battery type	Li-ion, Lead-acid battery					
Voltage range	42~58Vdc					
Max. charge current	66A	75A	100A		100A	
Max. discharge current	66A	75A	100A		120A	
Charging curve	3 Stages / Equalization					
Lithium battery charging strategy	BMS self-adaption					
AC INPUT (GRID)						
Grid type	Single phase (L+N+PE)					
Input voltage range	184~276Vac					
Input frequency range	50±5Hz / 60±5Hz					
Max. input current	21.8A	26.2A	36.5A		40A	
AC OUTPUT (GRID)						
Rated output power	3000W	3600W	5000W		6000W	
Max. apparent output power	3000VA	3600VA	5000VA		6000VA	
Grid system mode	Single phase (L+N+PE)					
Rated output voltage	220Vac / 230Vac					
Rated output frequency	50Hz / 60Hz					
Rated output current	13.6A / 13.0A	16.4A / 15.7A	22.7A / 21.8A		27.3A / 26.1A	
Max. output current	13.6A	16.4A	22.7A		27.3A	
Power factor	>0.99 (0.8 leading ~ 0.8 lagging)					
THDI	≤3% (@ Rated Power)					
AC OUTPUT (BACK-UP)						
Rated output power	3000W	3600W	5000W		6000W	
Max. apparent power	3000VA	3600VA	5000VA		6000W	
Output system mode	Single phase (L+N+PE)					
Rated output voltage	230Vac (208/220/240Vac settable)					
Rated output frequency	50Hz / 60Hz					
Rated output current@230V	13.0A	15.7A	21.8A		26.1A	
Max. output current	14.4A	17.3A	24.0A		28.8A	
THDV	≤3% (linear load)					
Transfer time	≤20ms					
EFFICIENCY						
Max. efficiency	97.8%					
MPPT efficiency	99.9%					
PROTECTIONS						
Protections	Over/under voltage, over/under-frequency, over load, output short-circuit, over temperature, residual current monitoring unit, output over-current, insulation resistance, anti islanding, surge protection					
Output overvoltage protection	DC Type II / AC Type III					
OTHERS						
Communications	RS485, WIFI					
Dimensions (W x H x D)	548 x 440 x 197mm					
Net weight	21.4kg			24.8kg		
Topology	High frequency isolation (for battery)					
IP rating	IP66					
Operating temperature	-25℃~+60℃ (>45℃ derating)					
Cooling mode	Natural cooling					
Altitude	4000m					
Noise level at 1 m	≤25dB					
Installation mode	Wall hanging					
STANDARDS						
Safety regulation	IEC/EN 62109-1/-2, AS62109					
EMC	EN 61000-6-1/-2/-3/-4					
Grid connection	CEI 0-21, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018,AS4777.2, NRS097-2-1, EN 50549-1					