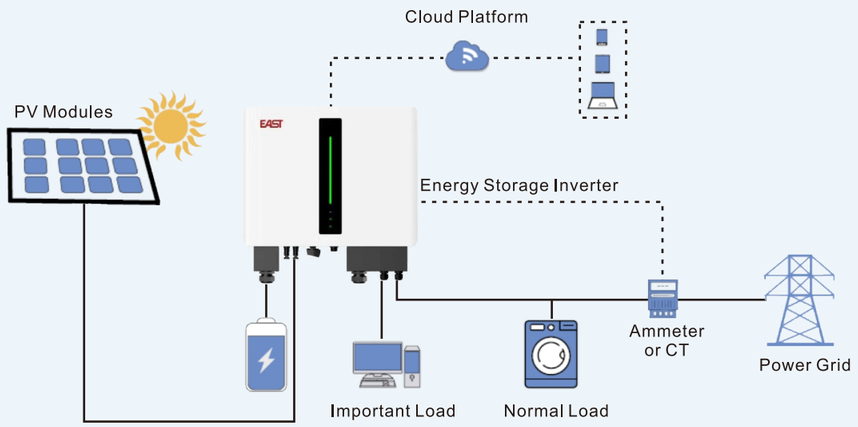
Hybrid Inverter

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
- Graphical LCD and key design, user-friendly operation interface
- 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



EAST® SINCE 1989

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	6000VA
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			