

Single-Phase Residential Energy Storage Inverter

EAHI-3000-SL / EAHI-3600-SL / EAHI-5000-SL / EAHI-6000-SL



IP66 all-aluminum chassis, adaptable to outdoor environment



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

Hybrid Inverter Specification

MODEL	EAHI-3000-SL		EAHI-3600-SL		EAHI-5000-SL		EAHI-6000-SL	
PV input parameter								
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 per MPPT	16A				16A/16A			
Max. short-circuit current per MPPT	24A				24A/24A			
Number of MPPT	1				2			
Number of input strings per MPPT	1				1/1			
Battery input parameter								
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 parameter(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 parameter(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 parameter(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	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	≤10ms							
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(WxHxD)(mm)	548x440x197							
Net weight(kg)	21.4				24.8			
Topology	High frequency isolation(for battery)							
IP rating	IP66							
Operating temperature	-25°C~+60°C(>45°C derating)							
Cooling mode	Natural cooling							
Altitude	4000m							
Noise level at 1 m	≤25dB							
Installation mode	Wall-mounted							
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							