

6kW Single-phase Home Energy Solution

All-in-one

Category	Item	EAHI-6000-SL-S					
PV Input	Max. Input Power	8000W					
	Input Voltage Range	100-550VDC					
	Rated Input Voltage	360VDC					
	Min. Operating Voltage	150VDC					
	MPPT Operating Voltage	100-540VDC					
	PV Max. Input Current Per MPPT	16A/16A					
	PV Max. Short-Circuit Current Per MPPT	24A/24A					
	Quantity of Independent MPPT	2					
Battery Input	Number of Input Strings Per MPPT	1/1					
	Battery Type	Lithium battery					
	Battery Voltage Range	42-58VDC					
	Max. Charging Current	100A					
	Max. Discharging Current	120A					
	Charging Curve	3 Stages/Equalization					
AC Input (grid side)	Lithium Battery Charging Strategy	BMS self-adaption					
	Grid Type	Single phase					
	Input Voltage Range	184-276VAC					
	Input Frequency Range	50±5Hz/60±5Hz					
AC Output (grid side)	Max. Input Current	40A					
	Rated Output Power	6000VA / 6000W					
	Rated Output Voltage & Frequency	220VAC/230VAC, 50Hz/60Hz					
	Rated Output Current	27.3A					
	Power Factor	> 0.99 (0.8leading-0.8lagging)					
AC Output (back-up side)	Total Current Harmonics	≤3% (@Rated power)					
	Rated Output Power	6000VA / 6000W					
	Rated Output Voltage & Frequency	230VAC (208/220/240VAC settable), 50Hz/60Hz					
	Rated Output Current	27.3A					
	Voltage Harmonic	≤3% (@Linear load)					
Efficiency	Switching Time	≤10ms					
	Max. Efficiency	97.8%					
Protections	MPPT Efficiency	99.9%					
	Comprehensive	Grid over-voltage protection, grid over-frequency protection, grid overload protection, over-temperature protection, anti-islanding protection, insulation resistance detection, residual current monitoring unit, output over-current protection, output short-circuit protection, surge protection					
Standards	Surge Protection	DC Type II/AC Type III					
	Safety Regulation	IEC/EN 62109-1/-2, AS62109					
	EMC	EN 61000-6-1/-2/-3/-4					
Others	Grid Connection	CEI 0-21, DIN VDE V 0124-100:2020, VDE-AR-N 4105:2018, NRS097-2-1, EN 50549-1 G99/1-9:2022, ETSI EN303645+PSTI, C10/11:2021, XP C 15-712-3:2019, ELOT EN 50549-1:2019, PEA					
	Topology	High frequency isolation (to batteries)					
	IP Rating	IP66					
	Operation Temperature	-25°C-60°C (derated at >45°C)					
	Cooling Mode	Natural cooling					
	Max. Altitude	4000m					
	Noise Level at 1m	≤25dB					
	Installation Mode	Floor-mounted					
System Componen	Dimensions(WxHxD)(mm)	600 x 530 x 305					
	Number of Battery Modules	1	2	3	4	5	6
	Battery Capacity	5.12kW	10.24kW	15.36kW	20.48kW	25.6kW	30.72kW
	Dimensions(WxHxD)(mm)	600*778*305	600*998*305	600*1218*305	600*1438*305	600*1658*305	600*1878*305
	Net Weight(kg)	93	143	193	243	293	343