

3-6kW Single-phase Hybrid Inverter

Category	Item	EAHI-3000-SL	EAHI-3600-SL	EAHI-5000-SL	EAHI-6000-SL
PV Input Parameter	Max. Input Power	4680W		6500W	7800W
	Voltage Range	100-550VDC			
	Rated Input Voltage	360VDC			
	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 MPPTs	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, 48VDC(rated)			
	Charge Current	66A	75A	100A	100A
	Max. Discharge Current	66A	75A	100A	120A
	Charging Curve	3 Stages/Equalization			
AC Input Parameter (grid)	Lithium Battery Charging Strategy	BMS self-adaption			
	Grid Type	Single phase (L/N/PE)			
	Input Voltage Range & Frequency	184~276VAC, 50±5Hz/60±5Hz			
	Max. Input Current	21.8A	26.2A	36.5A	40A
AC Output Parameter (grid)	Rated Output Power	3000VA/ 3000W	3600VA/ 3600W	5000VA/ 5000W	6000VA/ 6000W
	Grid System Mode	Single phase (L+N+PE)			
	Rated Output Voltage & Frequency	220VAC/230VAC, 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 (0.8leading~0.8lagging)			
	THDi	≤3% (@Linear load)			
	AC Output Parameter (back-up)	Rated Output Power	3000VA/ 3000W	3600VA/ 3600W	5000VA/ 5000W
Output System Mode		Single phase (L+N+PE)			
Rated Output Voltage		230VAC (208/220/240VAC settable)			
Rated Output Frequency		50Hz/60Hz			
Rated Output Curren		13.0A	15.7A	21.8A	26.1A
Max. Output Current		14.4A	17.3A	24.0A	28.8A
THDv		≤3% (@Linear load)			
Efficiency	Transfer Time	≤10ms			
	Max Efficiency	97.8%			
	MPPT Efficiency	99.9%			
Protection	Protection	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			
	Communications	RS485, WIFI			
	Dimensions(WxHxD)(mm)	548 x 440 x 197			
Others	Net Weight(kg)	21.4		24.8	
	Topology	High frequency isolation (for battery)			
	IP Rating	IP66			
	Operating Temperature	-25℃-60℃ (derated at > 45℃)			
	Cooling Mode	Natural cooling			
	Altitude	4000m			
	Noise Level at 1 m	≤25dB			
	Installation Mode	Wall-mounte			
Standards	Safety Regulatio	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			