



EH3000-EH6000

Single-phase Hybrid Inverter Series

3 kW / 3.68 kW / 4 kW / 5 kW / 6 kW | Dual MPPT

On-grid Output | Backup Output | 48 V Battery Interface

IP66 | LCD & APP | WiFi / LAN Communication



KEY FEATURES

Dual MPPT

80-520 VDC MPPT range with 2 trackers.

48 V Battery

Lithium and lead-acid battery support.

Fast Transfer

Backup automatic switch time under 20 ms.

On-grid + Backup

Separate grid and backup AC output ratings.

IP66 Enclosure

Outdoor-ready protection class.

WiFi / LAN

LCD & APP interface with network communication.

MODEL RANGE

EH3000 / EH3680 / EH4000 / EH5000 / EH6000

Rated output range: 3 kW to 6 kW

For residential PV systems requiring on-grid output, backup output and battery integration.
Product appearance and technical parameters may be updated without prior notice.



TECHNICAL SPECIFICATIONS - EH3000-EH6000

PV, battery, on-grid and backup parameters for residential hybrid PV systems.

Parameter	EH3000	EH3680	EH4000	EH5000	EH6000
PV Input					
Max. PV Input Power	4.5 kW	5.5 kW	6 kW	7.5 kW	9 kW
Full Power MPPT Voltage Range	117-500 V	145-500 V	158-500 V	197-500 V	250-500 V
AC Output - On Grid					
Nominal Output Power to Grid	3 kW	3.68 kW	4 kW	5 kW	6 kW
Max. Apparent Power to Grid	3 kVA	3.68 kVA	4 kVA	5 kVA	6 kVA
Max. Apparent Power from Grid	3 kVA	3.68 kVA	4 kVA	5 kVA	6 kVA
Max. Apparent Current from Grid	13.1 A	16 A	17.4 A	21.8 A	26.1 A
Nominal Current from Grid	13.1 A	16 A	17.4 A	21.8 A	26.1 A
Max. Output Current to Grid	13.1 A	16 A	17.4 A	21.8 A	26.1 A
AC Output - Backup					
Nominal Output Power	3 kW	3.68 kW	4 kW	5 kW	6 kW
Max. Apparent Power	3 kVA	3.68 kVA	4 kVA	5 kVA	6 kVA
Nominal Output Current	13.1 A	16 A	17.4 A	21.8 A	26.1 A
Max. Output Current	13.1 A	16 A	17.4 A	21.8 A	26.1 A
Battery / General					
Max. Charging / Discharging Current	80 / 80 A	80 / 80 A	80 / 80 A	120 / 120 A	120 / 120 A
Net Weight	23.5 kg	23.5 kg	23.5 kg	24 kg	24 kg

SHARED SERIES VALUES

Parameter	Series value	Parameter	Series value
PV Input		Protection	
Max. PV Open Circuit Voltage	550 V	Integrated Protection	DC switch; DC reverse polarity; Type III DC/AC surge protection; AC overvoltage; AC short-circuit; ground fault monitoring; anti-islanding; residual-current monitoring; insulation resistance monitoring; peak / valley time setting
MPPT Voltage Range	80-520 VDC		
Start-up Voltage	90 VDC		
Max. Input Current per MPPT	19 / 19 A		
Max. Short-circuit Current	25 / 25 A	General Data	
MPPT Tracker / Strings	2 / 1	HMI	LCD & APP
Nominal Input Voltage	360 V	BMS	RS485; CAN
AC Output - On Grid		EMS / Meter	RS485
Nominal Voltage / Frequency	230 V (176-280 V), 50/60 Hz, L + N + PE	Communication	WiFi / LAN
Adjustable Power Factor	0.8 leading to 0.8 lagging	Ingress Protection	IP66
THDI	<2%	Operating Temperature Range	-25 °C to +60 °C
AC Output - Backup		Relative Humidity	0%-95%, non-condensing
Nominal Voltage / Frequency	230 V (176-238 V), 50/60 Hz, L + N + PE	Max. Operating Altitude	4000 m, derating above 3000 m
Automatic Switch Time	<20 ms	Cooling	Natural
THDU	<2%	Noise Emission	<=29 dB
Overload Capacity	110% for 10s; 130% for 3s; 150% for 50ms	Dimensions (W x H x D)	486 x 528 x 230 mm
Efficiency		Self-consumption	<15 W
Max. Efficiency	96.65%	Standard Compliance	
MPPT Efficiency	99.00%	Safety Regulation	IEC / EN 62109-1 / -2
Battery Charge / Discharge Efficiency	94.60%	EMC	IEC / EN 61000-6-1 / -2 / -3 / -4
Battery		Grid Regulation	IEC 61727; Europe EN 50549; Belgium C10/11; Spain NTS-631; Italy CEI 021
Battery Voltage Range	40-60 V		
Recommended Battery Voltage	48 V		
Max. Charging Voltage	60 V		
Battery Type	Lithium and lead-acid battery		