



E-Star-EH3

RESIDENTIAL SERIES

POWER

5/6kW inverter

CAPACITY

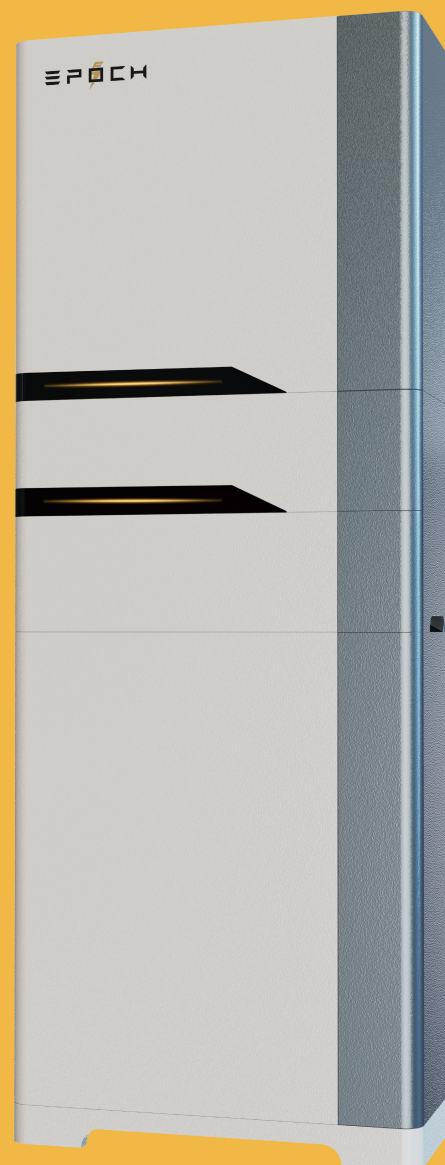
Battery modular design
Power capacity expandable

Multi-protection

Input Reverse Polarity/Anti-island
Over-heat/AC Overcurrent
AC Short-circuit/AC Overvoltage
DC Surge/AC Surge Protection



PV MPPT Voltage Range 120V~550V
Support GPRS/WIFI/RS485/USB
PV overload capability up to 130%



YOUR
SMART
ENRGY

E-Star-EH3

Model	3kw	3.68kw	5kw	6kw
PV Input Data				
Maximum input power (W)	4500	5500	7500	9000
Maximum input voltage (V)	600			
MPPT operating voltage range (V)	120–550			
Number of MPPT strings	2/1			
Maximum input current (A)	13.5/13.5			
MPPT Efficiency	99.90%			
Maximum efficiency	97.42%	97.45%	97.50%	97.50%
Max. Battery Discharge Efficiency	97.15%	97.45%	97.50%	97.50%
Euro Efficiency	97.15%	97.17%	97.20%	97.20%
AC parameters (Grid tie)				
Rated power (w)	3000	3800	5000	6000
Maximum apparent power (VA)	3000	3800	5000	6000
Rated Voltage(Vac)	220 /230/240; 160 ~ 290			
Rated frequency(Hz)	50/60:+5			
Maximum output current (A)	21.7		26.1	
Power factor range	0.8 leading ~ 0.8 lagging			
Current Total Harmonic Distortion (@rated power)	<2%			
AC output parameters (Off grid end)				
Rated output power (W)	3000	3800	5000	6000
Maximum apparent output power (VA)	3000	3800	5000	6000
Rated output voltage (Vac)	220 /230/240; 160 ~ 290			
Rated output frequency (Hz)	50/60:+5			
Maximum output current (A)	13	16	21.7	26.1
Battery Pack Data				
Battery pack model	ES–H48100			
Cell type	Li–ion(LFP)			
Battery Capacity(Ah)	100Ah			
Storage Capacity(kWh)	10kWh			
cycle life	7000			
Rated voltage (V)	51.2			
Battery Output Data				
Battery Type	Lithium or Lead–acid			
Battery Voltage Range (V)	80–450			
Max. Charging / Discharging Current (A)	25			
Max. Charging / Discharging Power (W)	4500 /3000	5500 /3680	6000 /5000	6000 /6000
Communication Interface	CAN			
General Data				
working temperature range	0 ~ 45°C			
Working altitude (m)	<2000			
Noise Figure (dB)	<35			
Topology	Transformerless			
cooling method	Natural Convection			
Protection class	IP65			
Relative humidity range	0 ~ 95%			
Human–computer interaction	LCD			
Meter communication mode	RS485			
Dimensions(w*D*H)(mm)	520* 380* 1300			
Warranty	5 years (optional 10 years)			
Weight(kg)	112			
Certification and packaging				
Grid Regulation	EN50549–1 / VDE–AR–N4105			
Safety Regulation	IEC 62109–1, IEC 62109–2, IEC62040			
EMC standard	EN61000–6–1/–2/–3			



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AC Short-circuit/AC Overvoltage
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YOUR
SMART
ENERGY

Model	3kw	3.68kw	5kw
PV Input Data			
Maximum input power (W)	3900	4600	6500
Maximum input voltage (V)	580		
MPPT operating voltage range (V)	100–550		
Number of MPPT strings	2/1		
Maximum input current (A)	12/12		
MPPT Efficiency	99.90%		
Maximum efficiency	97.60%		
Battery Charge/Discharge efficiency	94.00%		
Euro Efficiency	97.00%		
AC parameters (Grid tie)			
Rated power (w)	3000	3680	5000
Maximum apparent power (VA)	3000	3680	5000
Rated Voltage(Vac)	220 /230; 180 ~ 270		
Rated frequency(Hz)	50/60:+5		
Maximum output current (A)	13	16	21.7
Power factor range	0.8 leading ~ 0.8 lagging		
Current Total Harmonic Distortion (@rated power)	<3%		
AC output parameters (Off grid end)			
Rated output power (W)	3000	3680	5000
Maximum apparent output power (VA)	3000	3680	5000
Rated output voltage (Vac)	220 /230; 180 ~ 270		
Rated output frequency (Hz)	50/60:+5		
Maximum output current (A)	13	16	21.7
Battery Pack Data			
Battery pack model	ES–H48100		
Cell type	Li–ion(LFP)		
Battery Capacity(Ah)	100Ah		
Storage Capacity(kWh)	5		
cycle life	7000		
Operating voltage range (V)	51.2~57.6		
Rated voltage (V)	51.2		
Battery Output Data			
Battery Type	Lead–acid battery/lithium battery		
Battery Voltage Range(V)	40–60		
Max. Charging / Discharging Power(W)	3000		
Max. Charging / Discharging Current(A)	60		
Communication Interface	CAN		
General Data			
working temperature range	0 ~ 60℃		
Working altitude (m)	<4000		
Noise Figure (dB)	<35		
Topology	Transformerless		
cooling method	Natural Convection		
Protection class	IP65		
Relative humidity range	0 ~ 100%		
Human–computer interaction	LCD		
Meter communication mode	RS485		
Dimensions(w*D*H)(mm)	520* 380* 1300		
Warranty	5 years (optional 10 years)		
Weight(kg)	122		
Certification and packaging			
Grid Regulation	EN50549–1 / VDE–AR–N4105		
Safety Regulation	IEC 62109–1, IEC 62109–2,IEC62040		
EMC standard	EN61000–6–1/–2/–3		