



New Epoch , New Energy

WORK TOGETHER
FOR A WIN-WIN

New Beginning

Renewable energy,energy saving
and environment friendly,let us
with Epoch for a better future.



Power Your Car



E-Star-EH1

RESIDENTIAL SERIES



POWER

8/10/12kW 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 180V~850V
Support GPRS/WIFI/RS485/USB
PV overload capability up to 130%

Model	ESI-8KW-H3	ESI-10KW-H3	ESI-12KW-H3
PV Input Data			
Maximum input power (kW)	10.4	13	15.6
Maximum input voltage (V)	1000		
MPPT operating voltage range (V)	180~850V		
Number of MPPT /strings per MPPT	2/1		
Maximum input current (A)	12.5/12.5		
MPPT Efficiency	99.50%		
Maximum efficiency	97.9%	98.2%	98.2%
Battery efficiency	97.20%		
Euro Efficiency	97.2%	97.5%	97.5%
AC parameters (Grid tie)			
Rated power (kw)	8.8	11	13.2
Maximum apparent power (kVA)	8.8	11	13.2
Rated Voltage(Vac)	3L+N+PE,230/400V		
Rated frequency(Hz)	50/60		
Maximum output current (A)	12.7	15.9	19.1
Power factor range	0.8 leading ~ 0.8 lagging		
Current Total Harmonic Distortion (@rated power)	<3%		
AC output parameters (Off grid)			
Maximum apparent output power (kVA)	8.8	11	13.2
Rated output voltage (Vac)	3W+N+PE,230/400V		
Rated output frequency (Hz)	50/60		
Maximum output current (A)	12.7	15.9	19.1
Auto switch time (ms)	<20		
Overload capacity	110%,30S/120%,10S/150%,0.02S		
Battery Pack Data			
Battery pack model	ES-256V32AH		
Cell type	Li-ion(LFP)		
Rated voltage (V)	256		
Operating voltage range (V)	240~288V		
Battery Capacity(Ah)	32		
Storage Capacity (kWh)	8.2/16.4/24.6/32.8/41/49.5		
cycle life	10000*		
Battery Output Data			
Maximum charging voltage (V)	600		
Battery Voltage Range(V)	125~600V		
Full load battery voltage (V)	210	270	250
Rated charge / discharge current (A)	40		50
Communication Interface	CAN		
General Data			
working temperature range	-25~60°C		
Working altitude (m)	No derating below 2000m		
Noise Figure (dB)	<35		
Topology	Transformerless		
cooling method	Non-Isolated		
Protection class	IP65		
Humidity	0~95%		
Human-computer interaction	LCD		
Communication	CAM/RS485/DRM/WIFI (optional) /4G (optional)		
Dimensions(w*D*H)(mm)	530* 200* 600		
Warranty	5 years (optional 10 years)		
Weight(kg)	140/215/285/360/435/510		
Certification			
Certificates	VDE-AR-N 4105EN/IEC 61000-1/-2/-3/-4,IEC61000-3-11/12,UN38-3 VDE-AR-N 2510-50,IEC/EN 62109-1,IEC 62619,EN 50549,CEI 0-21,CE		

E-Star-EL1

RESIDENTIAL SERIES



POWER

3/4/5kW 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%

Model	ESI-3KW-L1	ESI-4KW-L1	ESI-5KW-L1
PV Input Data			
Maximum input power (kW)	4.6	6	7
Maximum input voltage (V)		500	
MPPT operating voltage range (V)		120~550V	
Number of MPPT /strings per MPPT		2/1	
Maximum input current (A)		14/14	
MPPT Efficiency		99.90%	
Maximum efficiency		97.60%	
Battery efficiency		97.20%	
Euro Efficiency		97.00%	
AC parameters (Grid tie)			
Rated power (kw)	3	4	5
Maximum apparent power (kVA)	3	4	5
Rated Voltage(Vac)		L+N+PE,230/176 ~270	
Rated frequency(Hz)		50/60	
Maximum output current (A)	13	17.4	21.7
Power factor range		0.8 leading ~ 0.8 lagging	
Current Total Harmonic Distortion (@rated power)		<3%	
AC output parameters (Off grid)			
Maximum apparent output power (kVA)	3	4	5
Rated output voltage (Vac)		L+N+PE,230	
Rated output frequency (Hz)		50/60	
Maximum output current (A)	13	17.4	21.7
Auto switch time (ms)		<20	
Overload capacity		110%,30S/120%,10S/150%,0.02S	
Battery Pack Data			
Battery pack model		ES-H48100	
Cell type		Li-ion(LFP)	
Battery Capacity(Ah)		100	
Storage Capacity (kWh)		5	
cycle life		7000*	
Operating voltage range (V)		44~57.6V	
Rated voltage (V)		51.2	
Battery Output Data			
Maximum charging voltage (V)		58	
Battery Voltage Range(V)		40~58V	
Rated charge / discharge current (A)	95/62.2	95/83.3	95/104.2
Communication Interface		CAN	
General Data			
working temperature range		-25~60°C	
Working altitude (m)		No derating below 2000m	
Noise Figure (dB)		<35	
Topology		Transformerless	
cooling method		Natural Convection	
Protection class		IP65	
Humidity		0~95%	
Human-computer interaction		LCD	
Meter communication mode		CAN/RS485	
Dimensions(w*D*H)(mm)		550* 200* 515	
Warranty		5 years (optional 10 years)	
Weight(kg)		130	
Certification			
Certificates	VDE-AR-N 4105EN/IEC 61000-1/-2/-3/-4,IEC61000-3-11/12,UN38-3 VDE-AR-N 2510-50,IEC/EN 62109-1,IEC 62619,EN 50549,CEI 0-21,CE		



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