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

PV+ESS Integrated System

EPOCH 10.36KW

Convenient Transportation

The integrated system is compact and flexible after settled, and can be transported in the form of container.

Simple Installation

After unloading from the container, it can be deployed on the ground and used immediately.

Long-Lasting

10.36kW PV modules can generate about 50 to 60 kWh within 8 hours a day. Except the daily use, built-in energy storage system can store excess electricity for standby

E-Star-EH1

MWT Flexible monocrystalline silicon high-efficiency PV Module

EPOCH 365-385W

Lightweight and ultra-thin design

The weight of the module is as light as 5.7kg and the thickness is as thin as 2.5mm, meeting the requirements of various low-load projects

Ultra-high flexibility

Ultra-thin silicon chips and advanced organic polymer packaging materials are used for ultra-high flexibility and toughness, with a minimum bending radius of 0.30m, which can perfectly fit various curved roofs

Efficient and reliable

There is no main grid at the front to improve the PV conversion efficiency, and the power generation performance is excellent under weak light conditions

Customizable

Products can be customized to meet the needs of different application scenarios

Convenient installation

Convenient and fast installation and transportation, saving a lot of installation and transportation costs

Lead-free environmental protection

Adhering to the concept of green PV design, with the lead-free technology and materials

E-Star-EH1

Model	SPP365EH	SPP370EH	SPP375EH	SPP380EH	SPP385EH
Performance parameters (Pm)					
Maximum power (Pm)/(w)	365	370	375	380	385
Power tolerance			0~+5		
Optimal working voltage (Vm)	34.9	35.1	35.3	35.5	35.7
Optimal working current (Im)	10.46	10.54	10.62	10.70	10.78
Open circuit voltage (Voc)	42.4	42.6	42.8	43.0	43.2
Short circuit current (Isc)	11.09	11.16	11.23	11.30	11.35
Effective efficiency of components	20.7	21.0	21.2	21.5	21.8
STC:AM=1.5, Irradiance 1000W/m ², Module temperature 25 , maximum power test uncertainty ±3%					
Performance parameters (NMOT)					
Maximum power (Pm)/(w)	274	278	282	286	290
Optimal working voltage (Vm)	32.8	33.0	33.2	33.4	33.6
Optimal working current (Im)	8.35	8.42	8.49	8.56	8.64
Open circuit voltage (Voc)	39.9	40.1	40.3	40.5	40.7
Short circuit current (Isc)	8.91	8.98	9.05	9.12	9.19
NMOT: irradiance 800W/m ², Ambient temperature 20 , wind speed 1m/s					

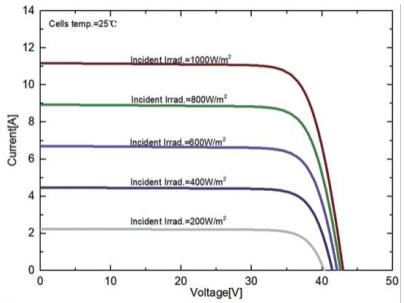
Temperature coefficient	
Rated operating temperature of battery (NMOT)	43±2℃
Power temperature coefficient	-0.36%/℃
Voltage temperature coefficient	-0.28%/℃
Current temperature coefficient	0.06%/℃
Mechanical Capacity	
Installation dimension (length × wide × High)	1840mm×1040mm×2.5mm
Weight	5.7 kg
Backing material	Backboard (white)
Cell	126 (21x6)/single crystal/half piece
Packaging materials	POE
Frame	No frame
Protection grade of junction box	IP68
Cable specification (length/sectional area)	Customized according to customers/4mm ²
Connector	MC4 compatible
Bending radius	0.3m
Working conditions	
Maximum system voltage	DC1500V(IEC)
Maximum fuse rated current	18A
Operating temperature range	-40℃~+85℃

Package

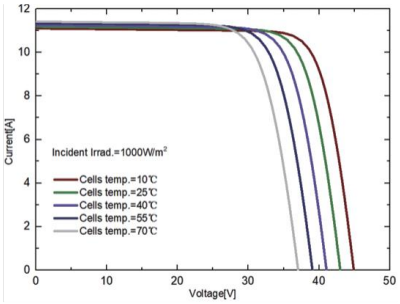
Type of shipping	container	Platform trailer	Platform trailer
Specifications	40'HQ	13m	17.5m
Number of Modules percontainer	1104	1196	1564
Number of Modules per pallet	46	46	46

IV – Curve

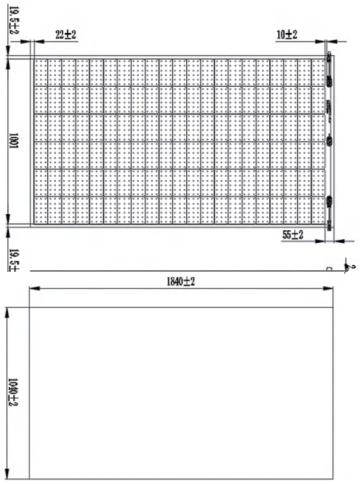
I-V curve under different irradiance(SPP375QHES)



I-V curve at different operating temperatures (SPP375QHES)



Module Size



EPOCH ENERGY TECHNOLOGY CO., LTD.

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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 to130%

E-Star-EH1

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 Effciency	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℃		
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		

EPOCH ENERGY TECHNOLOGY CO., LTD.
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E-Star-EH

EV Charger

EPOCH 3.5/11W

ESI-3.5kw-EH

1. Bluetooth connectable, support APP flexible operation
2. Intelligent dual temperature controlling, avoid overheating during charging
3. Support dual reservation charging of APP/ device
4. 4 stages of current adjustable, good compatibility
5. Patented adapter, more intelligent switching
6. IP66 protection upgrade, no fear of dust and rain
7. Assured by PICC, worry-free use
8. Grounding reminder, power supplyreassurance

ESI-11kw-EH

1. Online app management, intelligent and convenient
2. 9 Safety protections, more safe to use
3. Share free charging with families and friends
4. Support appointment charging, which saves more money

E-Star-EH

Model	ESI-3.5kw-EH	ESI-11kw-EH
Product parameters		
Power Max	3.5Kw	11Kw
Voltage (V)	220V	380V~AC
Electric current (A)	16A	32A
General parameters		
Product size	245×100×60 (mm) (high × wide × deep)	345×192×115 (mm) (high × wide × deep)
Length	5/10/15/20m	6m
Usage	Plug and Play	Swipe charging, Bluetooth connection
Protection grade	IP66 (Control box)、IP55(Gun head – coupling state)	Enclosure protection grade IP55
Working temperature	-20℃~+50℃	-20℃~+50℃
Cable specification	EV-(R)EYS90 3×6mm²+2×0.75mm²	EV-(R)EYS90 3×6mm²+2×0.75mm²
Standards	Q/GM SX0101002-2022	GB/T 18487.1-2015

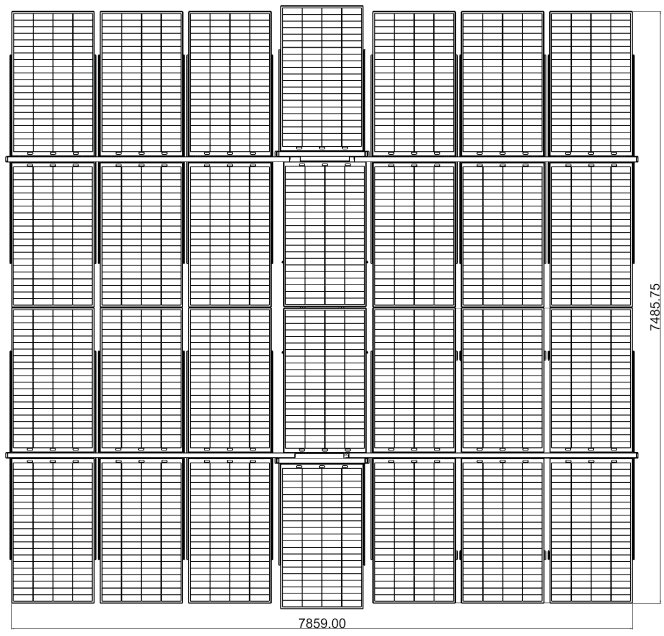
ESI-3.5kw-EH

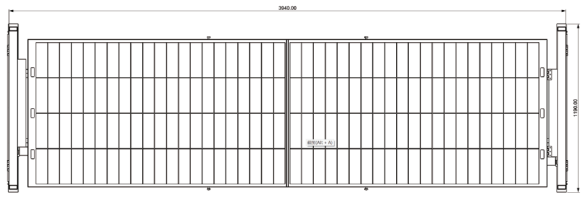
1.Smart and convenient charging,safe and convenient	2.Operate on the moile phone for charging	3.4 stages of current can be easily adjusted and the speed can be freely selected	4.Intelligent dual-temperature controlling design does not overheat when charging

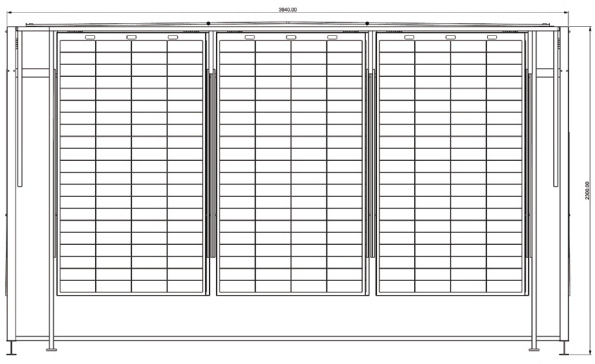
ESI-11kw-EH

1.Protect the car&poeple	2.Remote start and stop can also be charged at will when traveling	3.Share charging with friends and relatives for free	4.Support Tesla full-line charging Support mainstream EVs

Size of PV modules of the integrated system







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