



FENG RUI ENERGY

Smart Energy Solutions for Business

Energy on your terms, powered by smart storage



WUXI FENG RUI NEW ENERGY POWER BATTERY CO., LTD.

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V2.0 (en-zh) Information might be subject to change without notice during product improving.

Energy On Your Terms



Green energy, better life.

COMPANY PROFILE ABOUT FENGGRUI

Wuxi Fengrui New Energy Power Battery Co., Ltd. (FENGGRUI), founded in 2022 and headquartered in Wuxi, China, is an energy storage technology enterprise that integrates R&D, manufacturing and sales across the entire value chain. Driven by technological innovation, we have established a full-scenario product portfolio that includes residential, industrial & commercial, utility-scale storage, lithium battery packs, and portable power stations. With an annual production capacity of 1GWh and a presence in over 50 global markets, we deliver efficient and reliable integrated energy solutions to customers worldwide.

The company employs nearly 200 staff members, among whom R&D and engineering technical teams account for over 30%, continuously empowering product iteration and system innovation. Covering a total plant area of more than 20,000 square meters, our facility integrates cell assembly, system integration, testing & verification as well as warehousing and logistics, laying a solid foundation for large-scale production and consistent product quality. Benefiting from our self-owned land and factory premises, we can flexibly adjust production capacity schedules, steadily improve delivery efficiency, and further strengthen our long-term service capabilities to serve global markets.

MISSION

To advance clean energy solutions, create long-term value, and grow together with our people.

VISION

To accelerate the transition to clean energy and enable a more efficient and sustainable future.

VALUES

Integrity | Pragmatism | Excellence | Collaboration

Advancing green energy innovation

Empowering customers worldwide



Safety Assured, Quality Built to Last

Stringent extreme environment endurance assessment

82-Day Full-Load Environmental Reliability
Benchmark Test for Residential ESS



High Temperature



Rain Resistance Test



Freezing / Low Temperature Test



EMC Test

Environmental
Reliability Test

Global Authoritative Certifications

Fully tested to CE, RoHs and other international standards, the product delivers stable and reliable performance

6000+

safety cycle
verifications

500+

hours of continuous
durability testing

4,000+

reliability
verifications

1,200+

verification
tests

72+

hours of continuous
full-load operation

2-200Hz

2 hours of 3-axis contin-
uous vibration

The product has obtained a number of international authoritative certifications including RoHs MARK, CE (LVD/EMC), UN38.3 and EU Battery Regulation, as well as test reports from CNAS/CMA accredited laboratories in China. It complies with both EU and domestic compliance standards, with traceable quality and guaranteed safety.



Testing & Certification

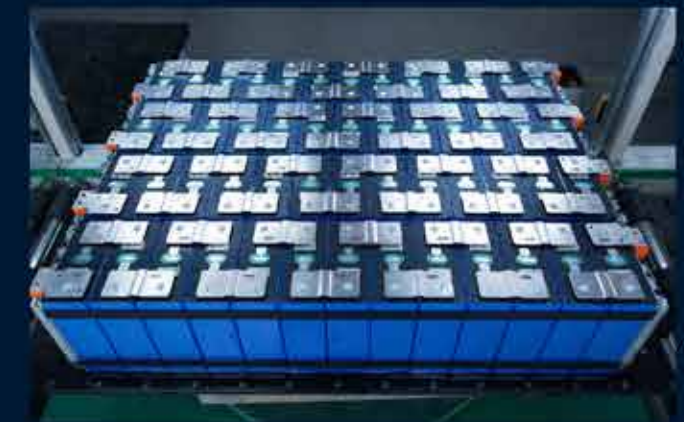
Tested to CE, RoHs and certified for reliable performance.

Focused on Energy Storage

Advanced Manufacturing Base

Fengrui Energy operates a state-of-the-art manufacturing base of over 8,000 m², dedicated to high-performance energy storage production. With standardized production lines and strict quality control, the facility ensures reliable and consistent output aligned with international standards.

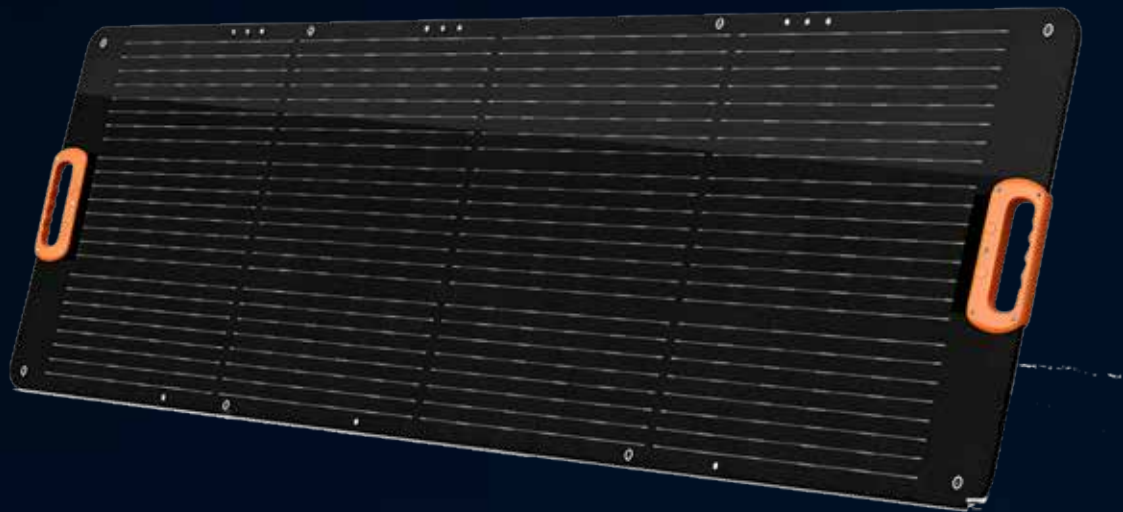
Backed by an experienced team, it supports both customized solutions and scalable delivery, driving Fengrui Energy's global growth.



Foldable Solar Panel

200W- Solar Epoch 200

Model: Solar Epoch 200
200W



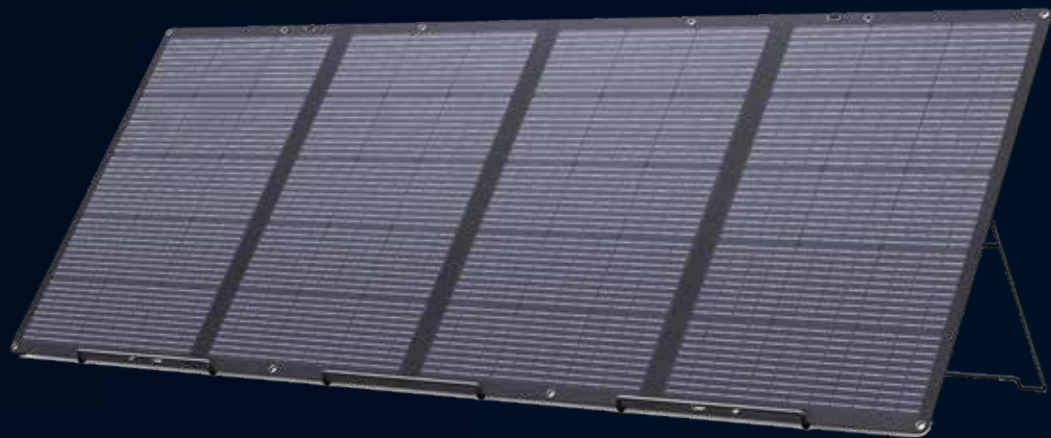
Parameter	
Model NO.	Solar Epoch 200
Pmax	200W
Vmp	18.00V
Imp	11.10A
Voc	20.40V
Isc	11.99A
ETFE Light Transmittance	≥ 95%
Dimensions(Folded)	23.23x23.07x0.67 inch (590x586x17mm)
Dimensions(Unfolded)	87.01x23.07x0.08 inch (2,210x586x2mm)
Packing Size	29.13x24.80x5.51 inch (740x630x140mm)
Packaging Method	Packaged in carton,one piece per carton
Solar Cell Lamination	ETFE,EVA,Composite Membrane
Cell Type	High Efficiency Monocrystalline Silicon
Folding Number	4
Cell Efficiency	0.226
Waterproof Rating	IP67
Operating Temperature	-20°C -+60°C
Adaptor Cable	MC-4 Connector(Applied to Anderson/XT60/DC5521/Aviation M16 port)
Net Weight	13.23 lbs(6kg)(Not including cables,bag,iron frame)
Gross Weight	21.61 lbs(9.8kg)
Warranty	12Months
Packing Details	200W Solar Panel*1,One-to-four Connection Cable*1,User Manual*1,Inner Cardboard Box*1,Outer Cardboard Box*1,Pearl Cotton Lining*2



Foldable Solar Panel

400W-Solar Epoch 400P

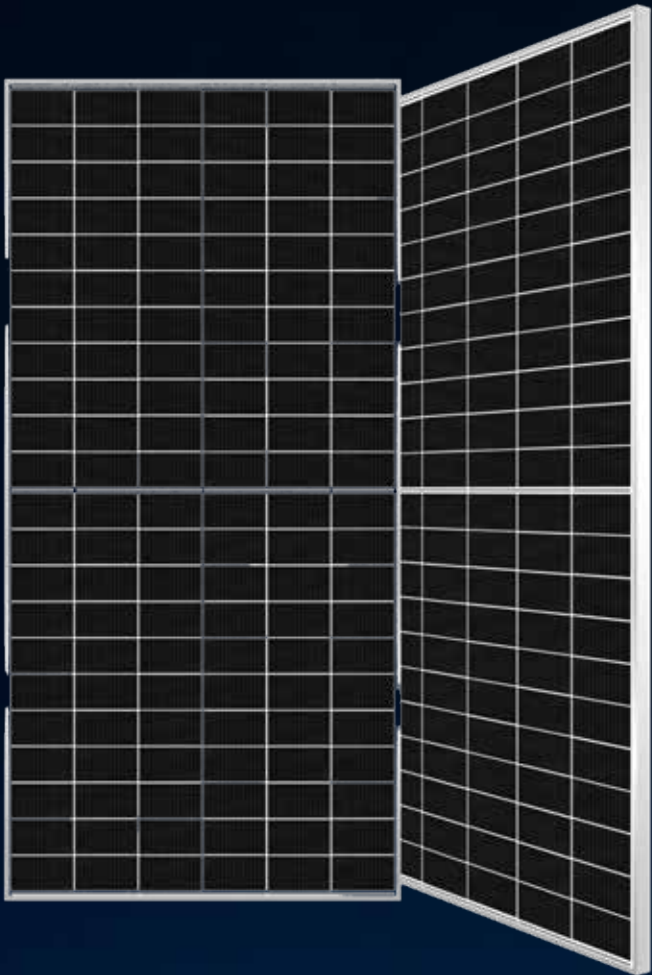
Model: Solar Epoch 400P
400W



Parameter	
Model NO.	Solar Epoch 400P
Pmax	400W
Vmp	36V
Imp	11.11A
Voc	40.32V
Isc	12A
ETFE Light Transmittance	≥ 95%
Dimensions(Folded)	38.66x24.41x1.38inch (982×620x35mm)
Dimensions(Unfolded)	98.82x38.66x0.08inch (2,510x982x2mm)
Packing Size	42.13×29.53x5.51inch (1,070×750x140mm)
Packaging Method	Packaged in carton,one piece per carton
Solar Cell Lamination	ETFE,EVA,Composite Membrane
Cell Type	High Efficiency Monocrystalline Silicon
Folding Number	4
Cell Efficiency	0.228
Waterproof Rating	IP67
Operating Temperature	-20°C -+60°C
Adaptor Cable	MC-4Connector (Applied to Anderson/XT60/DC5521/Aviation M16 port)
Net Weight	19.80 lbs (9kg)(Not Including Cables,Bag,Iron Frame)
Gross Weight	39.16 lbs(17.8KG)
Warranty	12 Months
Packing Details	400W Solar Panel*1,Storage Bag*1,1-to-4 Connector Cable*1,Velcro*2,Support Iron Stand*2,Pouch Pocket (black)*1,Ground Stake*2,Instruction Manual*1,Inner Cardboard Box*1,Outer Cardboard Box*1,Pearl Cotton Lining*2

HGH-66HC12B

Bifacial Module



Model: HGH-66HC12B
730~750W

- Up to 95% Bifaciality.
- Low BOS cost & LCOE.
- Low temperature coefficient.
- HJT / N-Type / Half-cut / Bifacial.



Green energy, better life.

Mechanical Characteristics					
Solar Cell	HJT N-Type mono-crystalline				
No. of Cells	132(6x22)				
Dimensions	2384x1303x33mm				
Weight	37.9kg				
Frame	Silver, Anodized Aluminum Alloy				
Front Glass	2.0mm, Anti-reflection Coating				
Back Glass	2.0mm, Heat Strengthened Glass				
Output Cables	4mm ² , 300mm (including connector)				
Junction Box	IP68 rated (3 bypass diodes)				
Connector	MC Compatible				
Operating Module Temperature	-40° C to +85° C				
Maximum System Voltage	1500 VDC (IEC)				
Maximum Series Fuse Rating	35A				
Mechanical Load	5400Pa (Front)/ 2400Pa(Back)				
Bifaciality (Pmpp)	90±5%				
Electrical Characteristics(STC)					
POWER CLASS	730	735	740	745	750
Testing Condition	STC	STC	STC	STC	STC
Maximum Power(Pmax/W)	730	735	740	745	750
Operating Voltage(Vmp/V)	42.32	42.41	42.50	42.59	42.68
Operating Current(Imp/A)	17.26	17.34	17.42	17.50	17.58
Open-Circuit Voltage(Voc/V)	50.37	50.47	50.57	50.67	50.77
Short-Circuit Current(Isc/A)	18.35	18.44	18.53	18.62	18.71
Module Efficiency(%)	23.50	23.66	23.82	23.98	24.15
Electrical Characteristics(BNPI)					
Maxinm Power(Pmax/W)	818	824	829	834	839
Operating Voltage(Vmp/V)	42.27	42.56	42.65	42.74	42.83
Operating Current(Imp/A)	19.28	19.37	19.46	19.52	19.59
Open-Circuit Voltage(Voc/V)	50.54	50.65	50.75	50.84	50.93
Short-Circuit Current(Isc/A)	20.58	20.68	20.78	20.88	20.98
Temperature Characteristics					
Nominal Module Operating Temperature (NMOT)	45±2° C				
Temperature Coefficient of Pmax	-0.25%/° C				
Temperature Coefficient of Voc	-0.29%/° C				
Temperature Coefficient of Isc	+0.043%/° C				

HGN-66HC10B

Bifacial Module

Model: HGN-66HC10B
630~650W



- PID resistance.
- Low BOS cost & LCOE.
- TOPCon / Half-cut / Bifacial.
- Low temperature coefficient.



Green energy, better life.

Mechanical Characteristics

Solar Cell	N-Type mono-crystalline
No. of Cells	132(6x22)
Dimensions	2382x1134x30mm
Weight	31.6kg
Frame	Silver, Anodized Aluminum Alloy
Front Glass	2.0mm, Anti-reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Output Cables	4mm ² , 300mm (including connector)
Junction Box	IP68 rated (3 bypass diodes)
Connector	MC Compatible
Operating Module Temperature	-40° C to +85° C
Maximum System Voltage	1500 VDC (IEC)
Maximum Series Fuse Rating	35A
Mechanical Load	5400Pa (Front)/ 2400Pa(Back)
Bifaciality (Pmpp)	80±5%

Electrical Characteristics(STC)

POWER CLASS	630	635	640	645	650
Testing Condition	STC	STC	STC	STC	STC
Maximum Power(Pmax/W)	630	635	640	645	650
Operating Voltage(Vmp/V)	41.02	41.16	41.30	41.44	41.58
Operating Current(Imp/A)	15.36	15.43	15.50	15.57	15.64
Open-Circuit Voltage(Voc/V)	49.48	48.68	49.88	50.08	50.28
Short-Circuit Current(Isc/A)	16.20	16.26	16.32	16.38	16.44
Module Efficiency(%)	23.32	23.51	23.69	23.88	24.06

Electrical Characteristics(BNPI)

Maximum Power(Pmax/W)	696	701	707	712	717
Operating Voltage(Vmp/V)	41.04	41.17	41.33	41.46	41.59
Operating Current(Imp/A)	16.95	17.03	17.10	17.17	17.24
Open-Circuit Voltage(Voc/V)	49.46	49.66	49.86	50.06	50.26
Short-Circuit Current(Isc/A)	17.90	17.96	18.03	18.09	18.15

Temperature Characteristics

Nominal Module Operating Temperature (NMOT)	45±2° C
Temperature Coefficient of Pmax	-0.25%/° C
Temperature Coefficient of Voc	-0.29%/° C
Temperature Coefficient of Isc	+0.043%/° C