

Zero-carbon aesthetic smart living, all-scenario solutions

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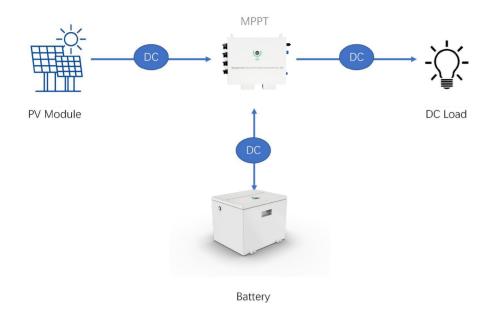
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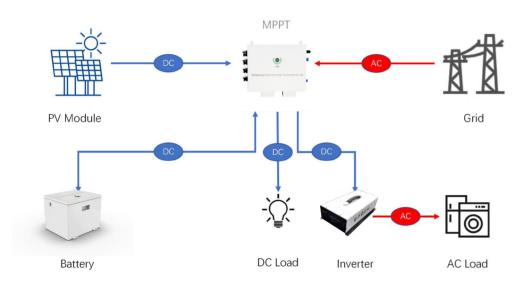


PEIS-E2 PV+ESS Off-Grid Integrated System Off-grid product series = 戸 ♬ にH EPOCH has been deeply involved in green energy for many years, aiming to achieve global coverage of microgrid systems.

EPOCH Original Off-Grid System **E**''' **PV Module** Photovoltaic-Energy Micro off-grid inverter PV-Storage Off-Grid Battery **Energy Management System** Storage Controller Intelligent Detection and PV-Storage System Power Multi-scenario installed photoelectric Control PV BAT LOAD (DC) Bidirectional AC-DC conversion building materials absorb sunlight Energy conversion, stable operation during the day to generate dire Waterproof / Windproof / Corrosion-resistant Integrated construction, integrated molding Easy to install / labor and material saving Good self-cleaning property Integrated integration Long service life • Easy to disassemble/replace and repair Independent modules, safe and reliable

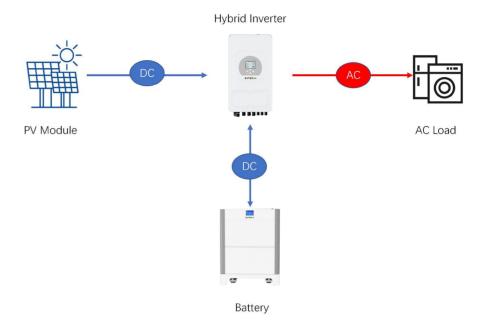
Schematic Diagram of Photovoltaic-Energy Storage Integration

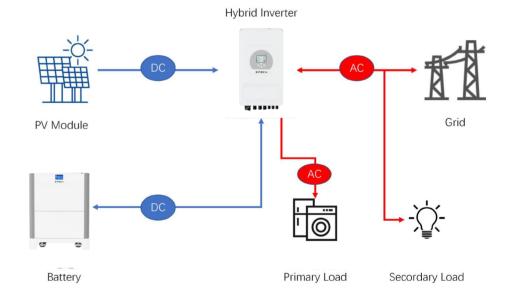


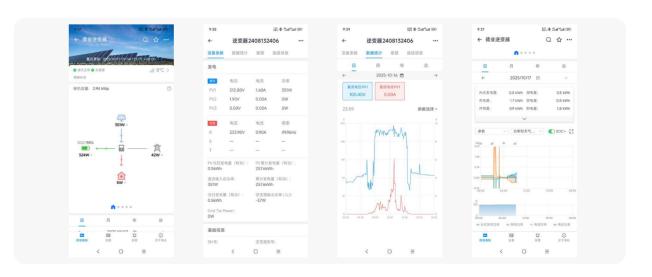


PV-Storage Integrated Energy Management System













Product Advantages

- It can support a DC load of about 1500W and can also perform remote/timer control of system operation, making it intelligent

- It features Protection Class IP65, adopts lithium battery, and boasts high safety factor, modular design, stable structure, easy installation and convenient use;
- Efficient MPPT controllers ensure that even if some photovoltaic panels are in the shade, it does not affect the overall power generation
- Expandable utility power access with intelligent AC/DC switching;

Product Matching (PV *4 / PV-Storage Controller*1 / Battery *1)







- Expandable utility power access with intelligent AC/DC switching;	PV	Controlller	Battery
Product Information			
PV			
Max. input current	20 A		
Max. input voltage	100 V		
Number of MPPTs	4		
MPPT tracker/ strings	1/1		
Battery			
Battery Type	LFP (LiFePO4)		
Battery capacity	100/125 Ah		
Stored electrical energy	5.12/6.4 kWh		
Depth of discharge (DoD)	85%		
Operating voltage range	44.8-58.4 V		
MPPT			
PV input	4P, 1/2S		
Communication protocol	CAN/Bluetooth/RS485/UAF	RT/WiFi (optional)/4G (optional	onal)
Connection type	AC (L+N+PE) /DC (48V)		
Load			
Max. output power	1500 W		
Max. output current	30 A		
Max. output voltage	50 V		
Basic Parameters			
Cycle-index	4000		
Weight	≈55/65 kg		
Battery dimensions (W*D*H)	500*425*250/425*350*340) mm	
Controlller dimensions (W*D*H)	330*125*325 mm		
IP rating	IP65		
Charging temperature	0~45 °C		
Discharge temperature	−20~60 °C		
Storage humidity	15~85%		
Warranty	5 Years *		
Reference Standard			

UN38.3

 $^{{\}rm \star \ For \ detailed \ information \ regarding \ application \ conditions, \ please \ refer \ to \ the \ warranty \ terms \ of \ EPOCH \ battery.}$

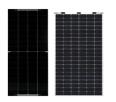




Product Advantages

- It can support a DC load of about 1500W and can also perform remote/timer control of system operation, making it intelligent
- It features Protection Class IP65, adopts lithium battery, and boasts high safety factor, modular design, stable structure, easy installation
- Efficient MPPT controllers ensure that even if some photovoltaic panels are in the shade, it does not affect the overall power generation

Product Matching (Conventional PV*1+Flexible PV*2 / PV-Storage Controller*1 /Battery *1)







- Expandable utility power access with intelligent AC/DC switching;	PV (Conventional/Flexible)	Controlller	Battery
Product Information			
PV			
Max. input current	20 A		
Max. input voltage	100 V		
Number of MPPTs	3		
MPPT tracker/ strings	1/1		
Battery			
Battery Type	LFP (LiFePO4)		
Battery capacity	100/125 Ah		
Stored electrical energy	5.12/6.4 kWh		
Depth of discharge (DoD)	85%		
Operating voltage range	44.8–58.4 V		
MPPT			
PV input	4P, 1/2S		
Communication protocol	CAN/Bluetooth/RS485/UART,	/WiFi (optional)/4G (o	ptional)
Connection type	AC (L+N+PE) /DC (48V)		
Load			
Max. output power	1500 W		
Max. output current	30 A		
Max. output voltage	50 V		
Basic Parameters			
Cycle-index	4000		
Weight	≈55/65 kg		
Battery dimensions (W*D*H)	500*425*250/425*350*340 r	nm	
Controlller dimensions (W*D*H)	330*125*325 mm		
IP rating	IP65		
Charging temperature	0~45 ℃		
Discharge temperature	-20~60 °C		

15~85%

5 Years *

UN38.3

Storage humidity

Reference Standard

Warranty

 $^{{\}tt * For \ detailed \ information \ regarding \ application \ conditions, \ please \ refer \ to \ the \ warranty \ terms \ of \ EPOCH \ battery.}$





Product Advantages

- It can support a DC load of about 1500W and can also perform remote/timer control of system operation, making it intelligent
- It features Protection Class IP65, adopts lithium battery, and boasts high safety factor, modular design, stable structure, easy installation and convenient use
- Efficient MPPT controllers ensure that even if some photovoltaic panels are in the shade, it does not affect the overall power generation

Product Matching (Flexible PV*1 / PV-Storage Controller*1 / Battery *1)







Expandable utility power access with intelligent AC/DC switching;	PV (Flexible)	Controlller	Battery
Product Information			
PV			
Max. input current	20 A		
Max. input voltage	100 V		
Number of MPPTs	1		
MPPT tracker/ strings	1/1		
Battery			
Battery Type	LFP (LiFePO4)		
Battery capacity	100/125 Ah		
Stored electrical energy	5.12/6.4 kWh		
Depth of discharge (DoD)	85%		
Operating voltage range	44.8-58.4 V		
MPPT			
PV input	4P, 1/2S		
Communication protocol	CAN/Bluetooth/RS485/UAF	RT/WiFi (optional)/4G (d	optional)
Connection type	AC (L+N+PE) /DC (48V)		
Load			
Max. output power	1500 W		
Max. output current	30 A		
Max. output voltage	50 V		
Basic Parameters			
Cycle-index	4000		
Weight	≈55/65 kg		
Battery dimensions (W*D*H)	500*425*250/425*350*34	0 mm	
Controlller dimensions (W*D*H)	330*125*325 mm		
IP rating	IP65		
Charging temperature	0~45 ℃		
Discharge temperature	-20~60 ℃		
Storage humidity	15~85%		
Warranty	5 Years *		
Reference Standard			

UN38.3

 $^{{\}tt * For \ detailed \ information \ regarding \ application \ conditions, \ please \ refer \ to \ the \ warranty \ terms \ of \ EPOCH \ battery.}$



For medium and long-distance trips: fuel saving, additional energy supply, temporary electricity use, and worry-free energy support.







Product Advantages

It can support a DC load of about 1500W and can also perform remote/timer control of system operation, making it intelligent and officient

- It features Protection Class IP65, adopts lithium battery, and boasts high safety factor, modular design, stable structure, easy installation and convenient use;
- Efficient MPPT controllers ensure that even if some photovoltaic panels are in the shade, it does not affect the overall power generation
- Expandable utility power access with intelligent AC/DC switching;

Product Matching (PV *2 /PV-Storage Controller*1 / Battery *1)







PV

Controlller

Battery

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Product Information				
PV				
Max. input current		20 A		
Max. input voltage		100 V		
Number of MPPTs		2		
MPPT tracker/ strings		1/1		
Battery				
Battery Type		LFP (LiFePO4)		
Battery capacity		100/125 Ah		
Stored electrical energy		5.12/6.4 kWh		
Depth of discharge (DoD)		85%		
Operating voltage range		44.8-58.4 V		
MPPT				
PV input		4P, 1/2S		
Communication protocol		CAN/Bluetooth/RS48	35/UART/WiFi (optional)/4G	(optional)
Connection type		AC (L+N+PE) /DC	(48V)	

Basic Parameters

Max. output power

Max. output current

Max. output voltage

Load

Cycle-index	4000
Weight	≈55/65 kg
Battery dimensions (W*D*H)	500*425*250/425*350*340 mm
Controlller dimensions (W*D*H)	330*125*325 mm
IP rating	IP65
Charging temperature	0~45 ℃
Discharge temperature	–20~60 °C
Storage humidity	15~85%
Warranty	5 Years *
Poforonoo Standard	

1500 W

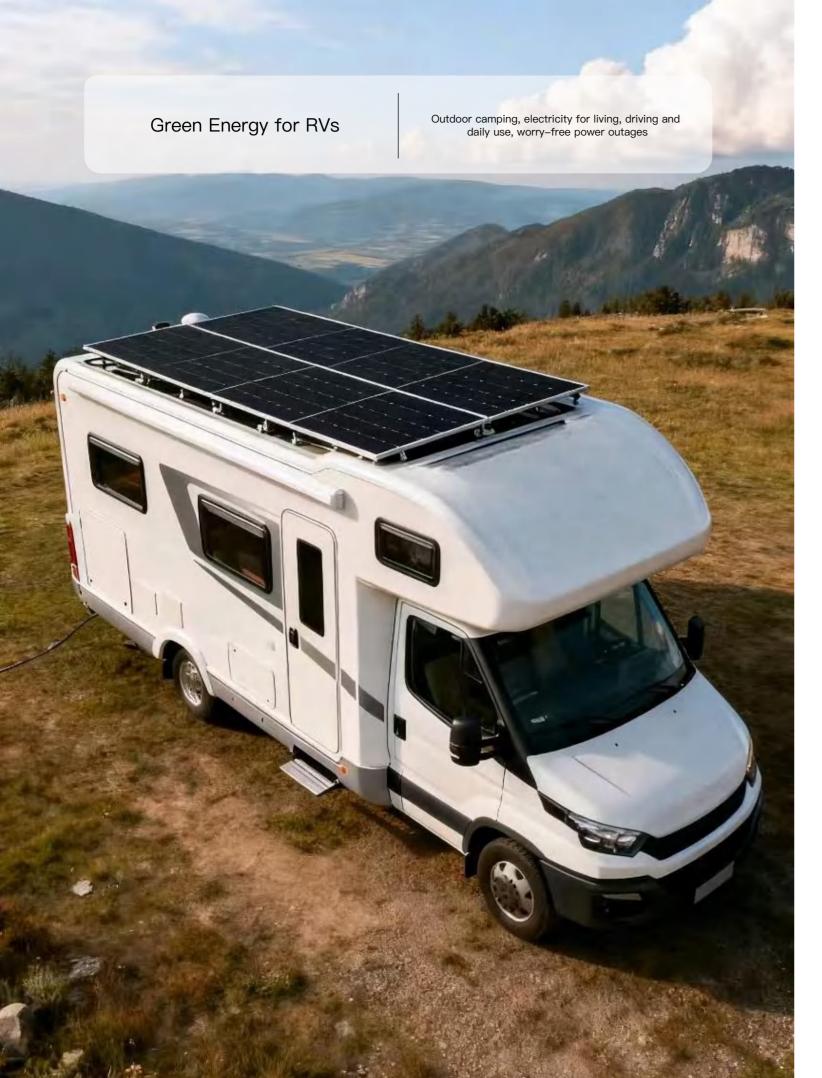
30 A

50 V

Reference Standard

Certification	UN38.
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 $^{{\}rm \star \ For \ detailed \ information \ regarding \ application \ conditions, \ please \ refer \ to \ the \ warranty \ terms \ of \ EPOCH \ battery.}$





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Product Matching (PV *4 / PV-Storage Controller*1 / Battery *1)







Expandable utility power access with intelligent AC/DC switching;	PV	Controlller	Battery
Product Information			
PV			
Max. input current	20 A		
Max. input voltage	100 V		
Number of MPPTs	4		
MPPT tracker/ strings	1/1		
Battery			
Battery Type	LFP (LiFePO4)		
Battery capacity	100/125 Ah		
Stored electrical energy	5.12/6.4 kWh		
Depth of discharge (DoD)	85%		
Operating voltage range	44.8-58.4 V		
MPPT			
PV input	4P, 1/2S		
Communication protocol	CAN/Bluetooth/RS485/UART	/WiFi (optional)/4G (option	nal)
Connection type	AC (L+N+PE) /DC (48V)		
Load			
Max. output power	1500 W		
Max. output current	30 A		
Max. output voltage	50 V		
Basic Parameters			
Cycle-index	4000		
Weight	≈55/65 kg		
Battery dimensions (W*D*H)	500*425*250/425*350*340	mm	
Controlller dimensions (W*D*H)	330*125*325 mm		
IP rating	IP65		
Charging temperature	0~45 °C		
Discharge temperature	-20~60 °C		
Storage humidity	15~85%		
Warranty	5 Years *		
Reference Standard			

UN38.3

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Product Advantages

It can support a DC load of about 1500W and can also perform remote/timer control of system operation, making it intelligent and efficient.

- It features Protection Class IP65, adopts lithium battery, and boasts high safety factor, modular design, stable structure, easy installation and convenient use;
- Efficient MPPT controllers ensure that even if some photovoltaic panels are in the shade, it does not affect the overall power generation
- Expandable utility power access with intelligent AC/DC switching;

Product Matching (PV *4 / PV-Storage Controller*1 / Battery *1)







Battery

PV

Controlller

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Max. input current	20 A
Max. input voltage	100 V
Number of MPPTs	4
MPPT tracker/ strings	1/1

Battery

Battery Type	LFP (LiFePO4)
Battery Type	
Battery capacity	100/125 Ah
Stored electrical energy	5.12/6.4 kWh
Depth of discharge (DoD)	85%
Operating voltage range	44.8–58.4 V

MPPT

PV input	4P, 1/2S
Communication protocol	CAN/Bluetooth/RS485/UART/WiFi (optional)/4G (optional)
Connection type	AC (L+N+PE) /DC (48V)

Load

Max. output power	1500 W
Max. output current	30 A
Max. output voltage	50 V

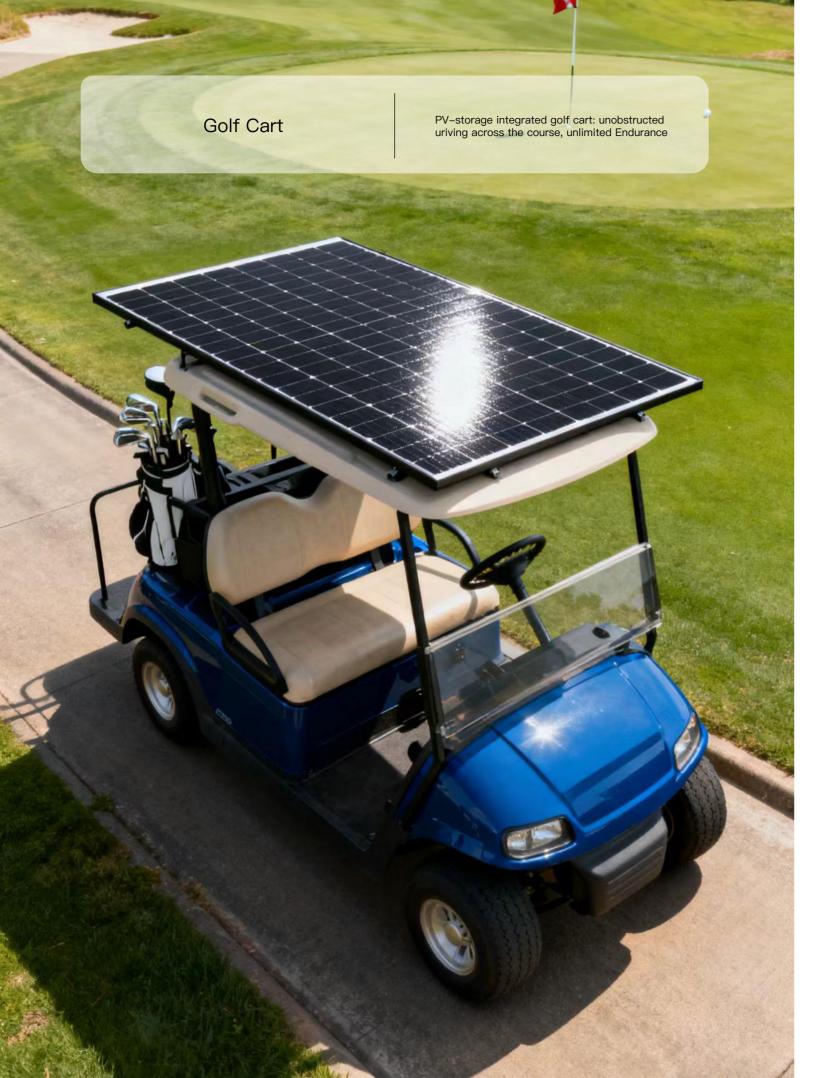
Basic Parameters

Cycle-index	4000
Weight	≈55/65 kg
Battery dimensions (W*D*H)	500*425*250/425*350*340 mm
Controlller dimensions (W*D*H)	330*125*325 mm
IP rating	IP65
Charging temperature	0~45 °C
Discharge temperature	−20~60 °C
Storage humidity	15~85%
Warranty	5 Years *

Reference Standard

Certification	UN38.3
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 $^{{\}rm * For\ detailed\ information\ regarding\ application\ conditions,\ please\ refer\ to\ the\ warranty\ terms\ of\ EPOCH\ battery.}$







Product Advantages

It can support a DC load of about 1500W and can also perform remote/timer control of system operation, making it intelligent and efficient.

- It features Protection Class IP65, adopts lithium battery, and boasts high safety factor, modular design, stable structure, easy installation and convenient use
- Efficient MPPT controllers ensure that even if some photovoltaic panels are in the shade, it does not affect the overall power generation
- Expandable utility power access with intelligent AC/DC switching;

Product Matching (Flexible PV*1 / PV-Storage Controller*1 / Battery *1)







PV (Flexible)

Controlller

Battery

Product Information	
PV	
Max. input current	20 A
Max. input voltage	100 V
Number of MPPTs	1
MPPT tracker/ strings	1/1
Battery	
Battery Type	LFP (LiFePO4)
Battery capacity	100/125 Ah
Stored electrical energy	5.12/6.4 kWh
Depth of discharge (DoD)	85%
Operating voltage range	44.8–58.4 V
MPPT	
PV input	4P, 1/2S
Communication protocol	CAN/Bluetooth/RS485/UART/WiFi (optional)/4G (optional)
Connection type	AC (L+N+PE) /DC (48V)
Load	
Max. output power	1500 W
Max. output current	30 A
Max. output voltage	50 V
Basic Parameters	
Cycle-index	4000
Weight	≈55/65 kg
Battery dimensions (W*D*H)	500*425*250/425*350*340 mm
Controlller dimensions (W*D*H)	330*125*325 mm
IP rating	IP65
Charging temperature	0~45 ℃
Discharge temperature	–20~60 °C
Storage humidity	15~85%
Warranty	5 Years *
Reference Standard	
Certification	UN38.3

 $^{{\}rm * For\ detailed\ information\ regarding\ application\ conditions,\ please\ refer\ to\ the\ warranty\ terms\ of\ EPOCH\ battery.}$





Product Advantages

- It can support a DC load of about 1500W and can also perform remote/timer control of system operation, making it intelligent
- It features Protection Class IP65, adopts lithium battery, and boasts high safety factor, modular design, stable structure, easy installation and convenient use;
- Efficient MPPT controllers ensure that even if some photovoltaic panels are in the shade, it does not affect the overall power generation

Product Matching (PV *4 / PV-Storage Controller*1 / Battery *1)







Expandable utility power access with intelligent AC/DC switching;	PV	Controlller	Battery
Product Information			
PV			
Max. input current	20 A		
Max. input voltage	100 V		
Number of MPPTs	4		
MPPT tracker/ strings	1/1		
Battery			
Battery Type	LFP (LiFePO4)		
Battery capacity	100/125 Ah		
Stored electrical energy	5.12/6.4 kWh		
Depth of discharge (DoD)	85%		
Operating voltage range	44.8-58.4 V		
MPPT			
PV input	4P, 1/2S		
Communication protocol	CAN/Bluetooth/RS485/U	ART/WiFi (optional)/4G	(optional)
Connection type	AC (L+N+PE) /DC (48V)	
Load			
Max. output power	1500 W		
Max. output current	30 A		
Max. output voltage	50 V		
Basic Parameters			
Cycle-index	4000		
Weight	≈55/65 kg		
Battery dimensions (W*D*H)	500*425*250/425*350*3	40 mm	
Controlller dimensions (W*D*H)	330*125*325 mm		
IP rating	IP65		
Charging temperature	0~45 ℃		
Discharge temperature	-20~60 °C		
Storage humidity	15~85%		
Warranty	5 Years *		
Reference Standard			
Certification	UN38.3		

 $^{{\}rm * For\ detailed\ information\ regarding\ application\ conditions,\ please\ refer\ to\ the\ warranty\ terms\ of\ EPOCH\ battery.}$



Farmland irrigation, water source allocation, worry-free power access, reliable use



EPOCH-PEIS



Product Advantages

- Up to 6 inverters can be connected in parallel, and battery parallel connection is supported, featuring ultra-large capacity and high proportion configuration;

- It features Protection Class IP65, adopts lithium battery, and boasts high safety factor, modular design, stable structure, easy installation and convenient use;
- The PV-Storage Integrated System offers simple model selection and matching. It supports both grid-connected and off-grid packages as needed, with demand based matching to achieve energy and cost savings





Product Matching (PV on Demand / Inverter *1 / Battery *1)



(hybrid/d

verter	Ba
d/off-arid)	

Product Information	
PV	
Max. input current	26 A
Max. input voltage	500 V
Number of MPPTs	2
MPPT tracker/ strings	2/2
Battery	
Battery Type	LFP (LiFePO4)
Battery capacity	314 Ah
Stored electrical energy	16.08 kWh
Depth of discharge (DoD)	85%
Operating voltage range	44.8-58.4 V
Inverter	
PV input	10400 W
Communication protocol	CAN/RS485/WiFi (optional) /4G (optional)
Connection type	AC (L+N+PE)
Load	
Max. output power	8000 W
Max. output current	40 A
Max. output voltage	220/230 V
Basic Parameters	
Cycle-index	8000
Battery Weight	≈120 kg
Battery dimensions (W*D*H)	580*400*770 mm
Inverter weight	≈25 kg
Inverter dimensions (W*D*H)	330*232*580 mm
IP rating	IP65
Charging temperature	0~45 °C
Discharge temperature	−20~60 °C
Storage humidity	15~85%
Warranty	10 Years *
Reference Standard	
Certification	UN38.3, CE

^{*} For detailed information regarding application conditions, please refer to the warranty terms of EPOCH battery.





Product Advantages

Product Matching (PV on Demand / Inverter *1 / Battery *1)

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- It features Protection Class IP65, adopts lithium battery, and boasts high safety factor, modular design, stable structure, easy installation and convenient use;
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needed, with demand based matching to achieve energy and cost savi	ings PV	Inverter (hybrid/off-grid)	Battery
Product Information			
PV			
Max. input current	26 A		
Max. input voltage	500 V		
Number of MPPTs	2		
MPPT tracker/ strings	2/2		
Battery			
Battery Type	LFP (LiFePO4)		
Battery capacity	314 Ah		
Stored electrical energy	16.08 kWh		
Depth of discharge (DoD)	85%		
Operating voltage range	44.8-58.4 V		
Inverter			
PV input	10400 W		
Communication protocol	CAN/RS485/WiFi (optional) /4G (optional)	
Connection type	AC (L+N+PE)		
Load			
Max. output power	8000 W		
Max. output current	40 A		
Max. output voltage	220/230 V		
Basic Parameters			
Cycle-index	8000		
Battery Weight	≈120 kg		
Battery dimensions (W*D*H)	580*400*770 mm		
Inverter weight	≈25 kg		
Inverter dimensions (W*D*H)	330*232*580 mm		
IP rating	IP65		
Charging temperature	0~45 °C		
Discharge temperature	-20~60 °C		
Storage humidity	15~85%		
Warranty	10 Years *		
Reference Standard			

UN38.3, CE

^{*} For detailed information regarding application conditions, please refer to the warranty terms of EPOCH battery.

Containerized Green Energy

PV-storage off-grid system — daily power needs met, energy independent, easy to install







Product Advantages

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- It features Protection Class IP65, adopts lithium battery, and boasts high safety factor, modular design, stable structure, easy installation and convenient use;
- The PV-Storage Integrated System offers simple model selection and matching. It supports both grid-connected and off-grid packages as needed, with demand based matching to achieve energy and cost savings





Product Matching (PV on Demand / Inverter *1 / Battery *1)



Pγ

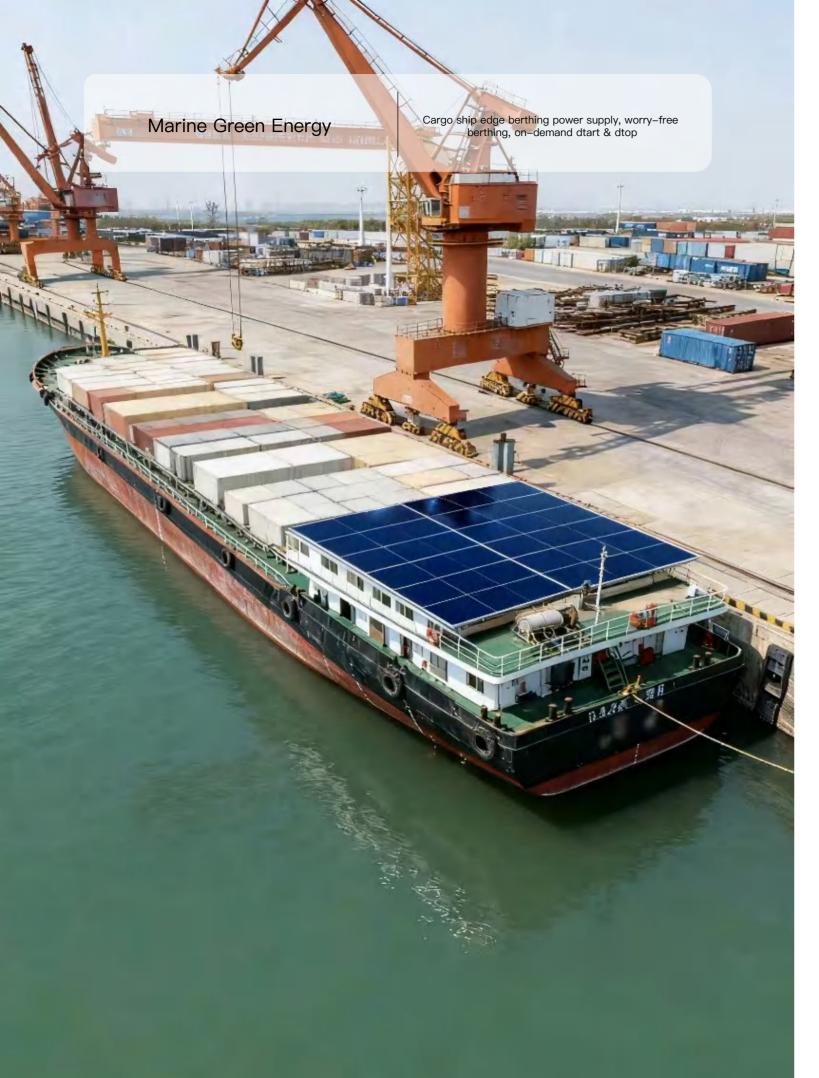
Inverter (hybrid/off-grid)

Battery

, c		(hybrid/off-grid)	Buttory
Product Information			
PV			
Max. input current	26 A		
Max. input voltage	500 V		
Number of MPPTs	2		
MPPT tracker/ strings	2/2		
Battery			
Battery Type	LFP (LiFePO4)		
Battery capacity	314 Ah		
Stored electrical energy	16.08 kWh		
Depth of discharge (DoD)	85%		
Operating voltage range	44.8-58.4 V		
Inverter			
PV input	10400 W		
Communication protocol	CAN/RS485/WiFi (optional) /4G (optional)	
Connection type	AC (L+N+PE)		
Load			
Max. output power	8000 W		
Max. output current	40 A		
Max. output voltage	220/230 V		
Basic Parameters			
Cycle-index	8000		
Battery Weight	≈120 kg		
Battery dimensions (W*D*H)	580*400*770 mm		
Inverter weight	≈25 kg		
Inverter dimensions (W*D*H)	330*232*580 mm		
IP rating	IP65		
Charging temperature	0~45 ℃		
Discharge temperature	-20~60 ℃		
Storage humidity	15~85%		
Warranty	10 Years *		
Reference Standard			

UN38.3, CE

^{*} For detailed information regarding application conditions, please refer to the warranty terms of EPOCH battery.





Product Advantages

Up to 6 inverters can be connected in parallel, and battery parallel connection is supported, featuring ultra-large capacity and high proportion configuration;

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- The PV-Storage Integrated System offers simple model selection and matching. It supports both grid-connected and off-grid packages as needed, with demand based matching to achieve energy and cost savings





Product Matching (PV on Demand / Inverter *1 / Battery *1)



Pγ

Inverter (hybrid/off-grid)

Battery

Product Information

Max. input current	26 A
Max. input voltage	500 V
Number of MPPTs	2
MPPT tracker/ strings	2/2

Battery

Battery Type	LFP (LiFePO4)
Battery capacity	314 Ah
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Inverter

PV input	10400 W
Communication protocol	CAN/RS485/WiFi (optional) /4G (optional)
Connection type	AC (L+N+PE)

Load

Max. output power	8000 W
Max. output current	40 A
Max. output voltage	220/230 V

Basic Parameters

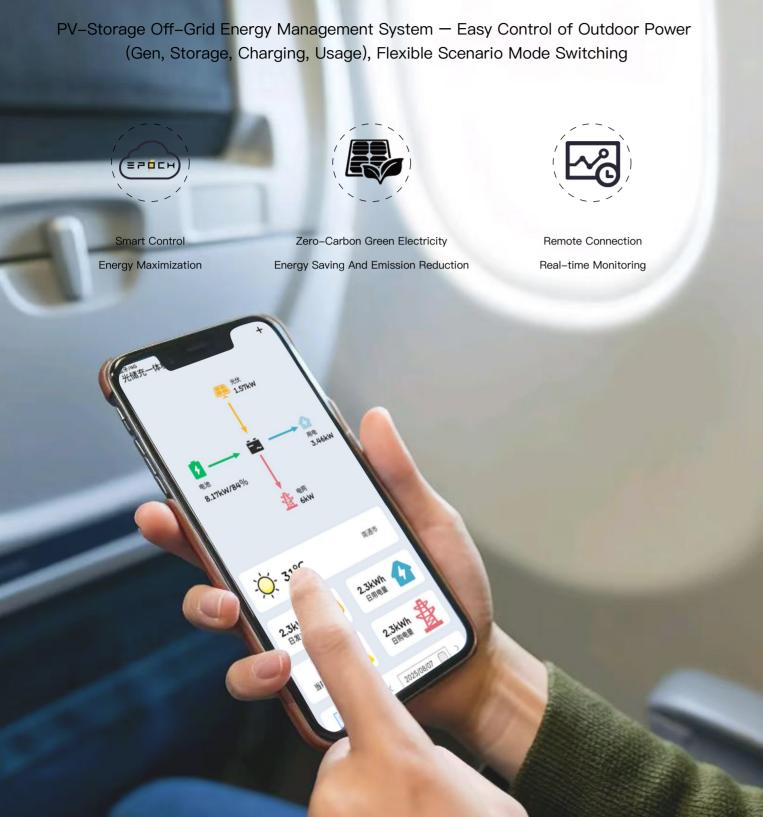
Cycle-index 8000 Battery Weight ≈120 kg
Battery dimensions (W*D*H) 580*400*770 mm
Inverter weight ≈25 kg
Inverter dimensions (W*D*H) 330*232*580 mm
IP rating IP65
Charging temperature $0~45~^{\circ}\mathrm{C}$
Discharge temperature −20~60 °C
Storage humidity 15~85%
Warranty 10 Years *

Reference Standard

Certification	UN38.3,	C

 $^{{}^{\}star}\, \text{For detailed information regarding application conditions, please refer to the warranty terms of EPOCH battery}.$





National First Choice for PV-Storage Integration Zero-Carbon Green Energy Expert



company

EPOCH is headquartered in Nantong, Jiangsu and is a company controlled by a listed company ("HYP-ARCH DESIGN: 301024") with many years of experience in the operation and management of the new energy industry.



Independently developed

From battery cells to fully integrated photovoltaic storage systems, independently developed by our in-house R&D team, having undergone tens of thousands of tests, all to ensure a safe and comfortable experience for users.



Preferred Enterprise for PV-Storage System Integration Integrates PV-Storage Innovation Outstanding Results in Multiple Electricity Fields Optimal Choice for Customers & Partners Far Ahead in Sales & Quality



Project Cases







High-Standard, High-Quality, High-Return Green Energy Supply Guarantee System for Customers