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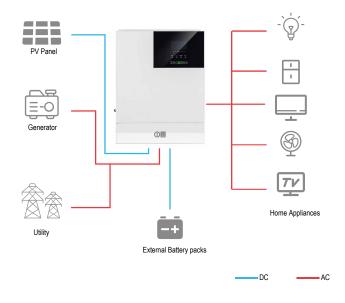
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Zecollex

EXPERTS IN PV ENERGY STORAGE MANAGEMENT AND CONTROL



- · Household photovoltaic power supply system
- All-in-one solar charge inverter system

Zecollex

EXPERTS IN PV ENERGY STORAGE MANAGEMENT AND CONTROL

Company Introduction

Zeconex is the leading manufacturer of electric vehicle charging systems, and battery energy storage system with solar inverters integrated in the global market, headquartered in Shenzhen, China.

Our wide range of new energy products are manufactured in-house, so we control all aspects of quality and functionality. We can tailor-make ev charger, battery energy storage system and solar inverter to suit your energy projects helping you realize your clean energy ideas.

Our product portfolio consists of Portable Charger, AC Charger, DC Charger, Power Module and Cloud Management System and Mobile APP, Battery Energy Storage System, Portable Power Station, Home Energy Storage System and Inverters, all independently developed by ourselves. We exported to more than 30 countries and regions since 2012.

Our team of ev charger, battery energy storage and inverters manufacturing experts is adept at understanding your energy needs and translating them into ev charger and battery energy storage that will fit right in and last for ages. We use only high-quality and other raw materials to ensure our ev charger, battery energy storage system and inverters are the best in the market.

Our top R&D team both in China and abroad, with rich experience in international protocol, which support us to offer OEM/ODM service for our clients all over the world. Welcome to be our partners.





Enterprise Vision

Committed to becoming the world's leading off-grid photovoltaic application system technology provider



Reserve Mission

"Put a chip on the sun", promote the application of photovoltaic energy, and make green energy change life.



Enterprise Philosophy

- · Honesty and Trustworthiness, True Words and Real Action
- · Overturn Inertia, Make Standards
- · Enterprising with one heart, cross the goal
- · Work together, reciprocal benefit and double win



Strand Strategy

Efficiency, high quality, high cost performance and differentiation.





Zecolex

COMPANY HONOR

At present, it has won 110+ industry-related patents, and established a patent attack and defense system

Utility Model Appearance Patent Software Copyright Patent

13+ **50+** 30+ 20+









































GLOBAL PARTNERS

























BUSINESS SCOPE



Dongguan Branch

Zhongshan Office

Ningbo Office

Yangzhou Office

The business scope of Shuori continues to expand, covering the world territory, the global service network throughout the Middle East, Africa, Europe, America, Australia, Asia, Southeast Asia, Canada, New Zealand, Japan, Korea and so on.



RELEVANT CERTIFICATION





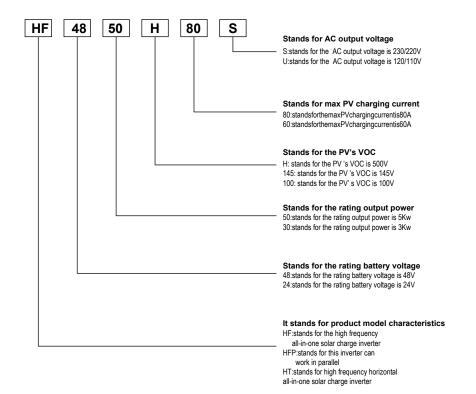




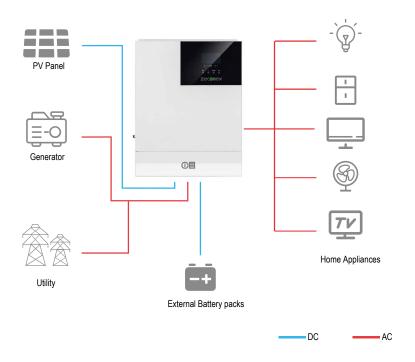




NAMING CONVENTION



PRODUCT SCHEMATIC



APPLICATION SCENARIOS













RV system

Off-grid household

Agricultura system

Herdsmen

Grid

Zecomex

All-in-one Solar Charge Inverter

HF48V Low Voltage Series (Max.Voc: 145V; Rated input voltage: 220/230V)



Performance characteristics

-Load friendly: Stable sine wave AC output via SPWM modulation
 -Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.
 -Dual LFP battery activation method: PV&mains

Uninterrupted power supply: simultaneous connection to utility grid/generator and PV
 Intelligent programming: the priority of the output from different energy sources can be set
 High energy efficiency: up to 99.9% MPPT capture efficiency

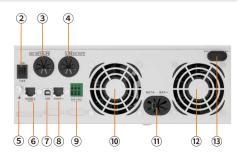
Instant viewing of operation: the LCD panel displays data and settings ,while you can also be viewed using the app and webpage

Power saving: power saving mode automatically reduces power consumption at zero-load Efficient heat dissipation: via intelligent adjustable speed fans

 Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection, and so on. under-voltage and over-voltage protection and reverse polarity protection.

Product characteristics





- Overload Protector Dry Contact Port ON/OFF Rocker Switch Cooling Fan AC Input Port Battery Port 4 AC Output Port Cooling Fan (5) PV Port Grounding Screw Hole RS485-2 Communication Port (14) Light Touch Button USB Communication Port 15 Indicator Light RS485-1 Communication Port (16) LCD Screen
- 16 15 14

Parameters

Model	ZECO-HF485014580 -S	Adjustable
Battery Input		•
Battery type	Sealed FLood GEL LFP Ternary	√
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)	
Hybrid Charging Maxi	4404	,
mum Charging Current	140A	√
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery)	√
Solar Input		•
Maximum PV Open-circuit		
Voltage	145vdc	
PV Working Voltage Range	60-145Vdc	
MPPT Voltage Range	60-115Vdc	
Maximum PV Input Current	50A	
Maximum PV Input Power	4400W	
Maximum PV Charging Current	80A	√
AC Input (generator/grid)		
Mains Maximum Charging	•••	,
Current	60A	√
Rated Input Voltage	220/230Vac	
Input Voltage Range	UPS Mains Mode: (170Vac~280Vac)±2% APL Generator Mode: (90Vac-280Vac)±2%	√
Frequency	50Hz/ 60Hz (Automatic Detection)	
Mains Charging Efficiency	>95%	
Switch Time (bypass and inverter)	10ms(Typical Value)	
Maximum Bypass Overload Current	40A	
AC Output		
Output Voltage Waveform	Pure Sine Wave	
Rated Output Voltage	230 (200/208/220/240Vac)	√
Rated Output Power	5000(4350/4500/4750/5000VA)	
Rated Output Power	5000(4350/4500/4750/5000W)	
Peak Power	10000VA	
On-load Motor Capacity	4HP	
Output Frequency Range(Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz	√
Maximum Efficiency	>92%	
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode: ≤25W (Manual Setup)	
General		•
Certificate	CE(IEC 62109-1)	
EMC Certification Level	EN61000, C2	
Working Temperature Range	-15°C ~ 55°C	
Storage Temperature Range	-25°C ~ 60°C	
Humidity Range	5% to 95%(Conformal Coating Protection)	
Dimensions	426mm*322mm*124mm	
Weight	10.8 KG	



HF48V Low Voltage Series (Max.Voc: 145V; Rated input voltage: 110/120V)



Performance characteristics

·Load friendly: Stable sine wave AC output via SPWM modulation ·Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program. ·Dual LFP battery activation method: PV&mains

·Uninterrupted power supply: simultaneous connection to utility grid/generator and PV ·Intelligent programming: the priority of the output from different energy sources can be set ·High energy efficiency: up to 99.9% MPPT capture efficiency

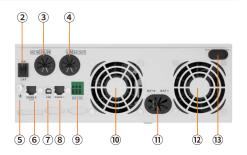
·Instant viewing of operation: the LCD panel displays data and settings ,while you can also be viewed using the app and webpage

·Power saving: power saving mode automatically reduces power consumption at zero-load ·Efficient heat dissipation: via intelligent adjustable speed fans

·Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection, and so on. under-voltage and over-voltage protection and reverse polarity protection.

Product characteristics





- Overload Protector ON/OFF Rocker Switch 3 AC Input Port 4 AC Output Port (5) Grounding Screw Hole
 - PV Port RS485-2 Communication Port Light Touch Button Indicator Light

Dry Contact Port

Cooling Fan

Battery Port

Cooling Fan

USB Communication Port RS485-1 Communication Port 16 LCD Screen



Parameters

Model	ZECO-HF483514580-U	Adjustable
Battery Input		
Battery type	Sealed FLood GEL LFP Ternary	√
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)	
Hybrid Charging Maxi		,
mum Charging Current	120A	√
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery)	√
Solar Input		•
Maximum PV Open-circuit	46.1	
Voltage	145vdc	
PV Working Voltage Range	60-145Vdc	
MPPT Voltage Range	60-115Vdc	
Maximum PV Input Current	50A	
Maximum PV Input Power	4400W	
Maximum PV Charging Current	80A	√
AC Input (generator/grid)		•
Mains Maximum Charging	404	,
Current	40A	√
Rated Input Voltage	110/120Vac	
Input Voltage Range	(90Vac-140Vac)±2%	√
Frequency	50Hz/ 60Hz (Automatic Detection)	
Mains Charging Efficiency	>95%	
Switch Time (bypass and inverter)	10ms(Typical Value)	
Maximum Bypass Overload Current	40A	
AC Output		
Output Voltage Waveform	Pure Sine Wave	
Rated Output Voltage	120 (100/105/110Vac)	√
Rated Output Power	3500 (2900/3050/3200VA)	
Rated Output Power	3500 (2900/3050/3200W)	
Peak Power	6000VA	
On-load Motor Capacity	2HP	
Output Frequency Range(Hz)	50Hz ± 0.3Hz/60Hz ± 0.3Hz	√
Maximum Efficiency	>92%	
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode: ≤25W (Manual Setup)	
General		•
Certificate	CE(IEC 62109-1)	
EMC Certification Level	EN61000, C2	
Working Temperature Range	-15°C ~ 55°C	
Storage Temperature Range	-25°C ~ 60°C	
Humidity Range	5% to 95%(Conformal Coating Protection)	
Dimensions	426mm*322mm*124mm	
Weight	10.8 KG	



HFP48V parallel connection Series(Max.Voc: 145V; Rated input voltage: 220/230V) HFP48V parallel connection Series(Max.Voc: 145V; Rated input voltage: 110/120V)



Performance characteristics

·Load friendly: Stable sine wave AC output via SPWM modulation

·Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.

·Dual LFP battery activation method: PV&mains

·Uninterrupted power supply: simultaneous connection to utility grid/generator and PV

·Intelligent programming: the priority of the output from different energy sources can be set

·High energy efficiency: up to 99.9% MPPT capture efficiency

 $\cdot \text{Instant viewing of operation: the LCD panel displays data and settings ,} \text{while you can also}$

be viewed using the app and webpage

·Power saving: power saving mode automatically reduces power consumption at zero-load

·Efficient heat dissipation: via intelligent adjustable speed fans

Multiple safety protection functions: short circuit protection, overload protection, reverse planty protection, and so on.

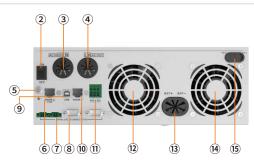
under-voltage and over-voltage protection and reverse polarity protection.

·Supports up to 6 devices of the same model connected in parallel

(forming a single-phase,split-phase,three-phase electrical system)

Product characteristics





1	Overload Protector	10	RS485-1 Communication Port
2	ON/OFF Rocker Switch	11)	Dry Contact Port
3	AC Input Port	12	Cooling Fan
4	AC Output Port	13)	Battery Port
(5)	Grounding Screw Hole	14)	Cooling Fan
6	RS485-2 Communication Port	15	PV Port
7	Current Sharing Port (only apply to parallel modules)	16)	Light Touch Button
8	Communication Port (only apply to parallel modules)	17)	Indicator Light
9	USB Communication Port	18)	LCD Screen



Parameters

Model	ZECO-HFP485014580-S	ZECO-HFP483514580-U	Adjustable
Battery Input			
Battery type	Sealed FLood	GEL、LFP、Ternary	√
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)		
Hybrid Charging Maxi			,
mum Charging Current	140A	120A	√
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage W Warning/Overvolt		√
Solar Input			
Maximum PV Open-circuit			
Voltage	145\	vdc	
PV Working Voltage Range	60-145Vdc		
MPPT Voltage Range	60-115Vdc		
Maximum PV Input Current	50A		
Maximum PV Input Power	4400W		1
Maximum PV Charging Current	80A		
AC Input (generator/grid)			
Mains Maximum Charging			1
Current	60A	40A	√
Rated Input Voltage	220/230Vac	110/120Vac	
Rated Input Voltage	220/230Vac	110/120Vac	
Input Voltage Range	UPS Mains Mode: (170Vac~280Vac)±2% APL Generator Mode: (90Vac~280Vac)±2%	(90Vac-140Vac)±2%	√
Frequency	50Hz/ 60Hz (Automatic Detection)		
Mains Charging Efficiency	>9	5%	
Switch Time (bypass and inverter)	10ms(Typ	oical Value)	
Maximum Bypass Overload Current	4	0A	
AC Output			
Output Voltage Waveform	Pure Si	ne Wave	
Rated Output Voltage	230 (200/208/220/240Vac)	120 (100/105/110Vac)	√
Rated Output Power	5000 (4350/4500/4750/5000VA)	3500 (2900/3050/3200VA)	
Rated Output Power	5000 (4350/4500/4750/5000W)	3500 (2900/3050/3200W)	
Peak Power	10000VA	6000VA	
On-load Motor Capacity	4HP	2HP	
Output Frequency Range(Hz)	50Hz ± 0.3H	z/60Hz ± 0.3Hz	√
Maximum Efficiency	>92%	>91%	
No-load Loss	Non Energy-saving Mode: ≤50W Energy	gy-saving Mode: ≤25W (Manual Setup)	
General		· · · · · · · · · · · · · · · · · · ·	
Number of parallel/split phases	1-	-6PCS	
		CE(IEC 62109-1)/	
Certificate	CE(IEC 62109-1)	CETL(UL 1741/ CSA C22.2 NO.107.1)	
EMC Certification Level	EN61000	, C2	
Working Temperature Range	-15°C ~ 5	55°C	
Storage Temperature Range	-25°C ~ 6	60°C	
Humidity Range	5% to 95%(Conformal C	Coating Protection)	
Dimensions	426mm*322mr	n*124mm	
Weight	10.8 Ki	G	

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HF24V Low Voltage Series(Max.Voc 100V Rated input voltage 220/230V)



Performance characteristics

·Load friendly: Stable sine wave AC output via SPWM modulation

 $\cdot \text{Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.} \\$

·Dual LFP battery activation method: PV&mains

·Uninterrupted power supply: simultaneous connection to utility grid/generator and PV

·Intelligent programming: the priority of the output from different energy sources can be set

·High energy efficiency: up to 99.9% MPPT capture efficiency

Instant viewing of operation: the LCD panel displays data and settings ,while you can also be viewed using the app and webpage

·Power saving: power saving mode automatically reduces power consumption at zero-load

·Efficient heat dissipation: via intelligent adjustable speed fans

-Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection, and so on.

under-voltage and over-voltage protection and reverse polarity protection.

Product characteristics





- AC Input Port
- 2 AC Output Port
- 3 USB Communication Port
- (4) RS485 Communication Port
- 5 Dry Contact Port
- Grounding Screw Hole
- 7 Mains Input Overload Protector
- Cooling Fan
- 9 Battery Port
- 0 ON/OFF Rocker Switch
- 1 PV Input Port
- 12 Light Touch Button
- 13 Indicator Light
- 14 LCD Screen

Parameters

Model	ZECO-HF242010060-S	ZECO-HF243010060-S	Adjustable
Battery Input			
Battery type	Sealed FLood G	EL、LFP、Ternary	√
Rated Battery Input Voltage	24V (Minimum Star	tup Voltage 22V)	
Hybrid Charging Maxi			
mum Charging Current	120A	140A	√ ·
Battery Voltage Range	20Vdc~33Vdc ± 0.3Vdc(Undervoltage \ Warning/Overvo	Varning/Shutdown Voltage/Overvoltage tage Recovery)	√
Solar Input			
Maximum PV Open-circuit			
Voltage	100	Ovdc	
PV Working Voltage Range	30-	100Vdc	
MPPT Voltage Range	30-	85Vdc	
Maximum PV Input Current	40		
Maximum PV Input Power		00W	
Maximum PV Charging Current	60/		
AC Input (generator/grid)			
Mains Maximum Charging			
Current	60A	80A	√
Rated Input Voltage	220/23	I 0Vac	
Input Voltage Range		APL Generator Mode: (90Vac-280Vac)±2%	
Frequency	50Hz/ 60Hz (Automatic Detection)		
Mains Charging Efficiency	· · · · · · · · · · · · · · · · · · ·	95%	
Switch Time (bypass and inverter)	10ms(Typical Value)		
Maximum Bypass Overload Current		, 30A	
AC Output		, and the second	
Output Voltage Waveform	Pure Sir	ne Wave	
Rated Output Voltage	230 (200/208/		√
Rated Output Power	2000 (1750/1800/1900/2000VA)	3000 (2600/2700/2850/3000VA)	V
Rated Output Power	2000 (1750/1800/1900/2000W)	3000 (2600/2700/2850/3000W)	
Peak Power	4000VA	6000VA	
On-load Motor Capacity	1HP	2HP	
Output Frequency Range(Hz)	50Hz±0.3Hz/6		
Maximum Efficiency	>9;		- V
No-load Loss	Non Energy-saving Mode: ≤50W Energy-		
General General	Lindy		
Certificate	CECIEC	62109-1)	
EMC Certification Level	EN610	<u> </u>	
Working Temperature Range	-15°C ·		
Storage Temperature Range			
	-25°C -	al Coating Protection)	
Humidity Range Dimensions			
Dimensions	378mm*280mm*103mm 6.2 KG		

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HF24V Low Voltage Series(Max.Voc 100V Rated input voltage 110/120V)



Performance characteristics

·Load friendly: Stable sine wave AC output via SPWM modulation

Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.

Dual LFP battery activation method: PV&mains

·Uninterrupted power supply: simultaneous connection to utility grid/generator and PV

 $\cdot \text{Intelligent programming: the priority of the output from different energy sources can be set} \\$

·High energy efficiency: up to 99.9% MPPT capture efficiency

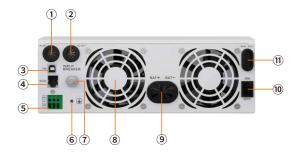
Instant viewing of operation: the LCD panel displays data and settings ,while you can also be viewed using the app and webpage

Power saving: power saving mode automatically reduces power consumption at zero-load Efficient heat dissipation: via intelligent adjustable speed fans

-Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection, and so on.

under-voltage and over-voltage protection and reverse polarity protection.

Product characteristics





- AC Input Port
- 2 AC Output Port
- 3 USB Communication Port
- (4) RS485 Communication Port
- (5) Dry Contact Port
- Grounding Screw Hole
- Mains Input Overload Protector
- 8 Cooling Fan
- Battery Port
- 10 ON/OFF Rocker Switch
- PV Input Port
- 12 Light Touch Button
- 13 Indicator Light
- 14 LCD Screen

Parameters

Model	ZECO-HF242010060-U	ZECO-HF243010060-U	Adjustable
Battery Input			•
Battery type	Sealed FLood	GEL、LFP、Ternary	√
Rated Battery Input Voltage	24V (Minimum S	Startup Voltage 22V)	
Hybrid Charging Maxi			,
mum Charging Current			√
Battery Voltage Range	20Vdc~33Vdc ± 0.3Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery)		√
Solar Input			
Maximum PV Open-circuit	400	W/4-	
Voltage	100)Vdc	
PV Working Voltage Range	30-1	00Vdc	
MPPT Voltage Range	30-8	5Vdc	
Maximum PV Input Current	4	0A	
Maximum PV Input Power	16	oow	
Maximum PV Charging Current	6	0A	√
AC Input (generator/grid)			
Mains Maximum Charging			,
Current	4	0A	√ ·
Rated Input Voltage	110/120Vac		
Input Voltage Range	(90Vac-140Vac)±2%		
Frequency	50Hz/ 60Hz (Automatic Detection)		
Mains Charging Efficiency	>95%		
Switch Time (bypass and inverter)	10ms(Typical Value)		
Maximum Bypass Overload Current	40A		
AC Output			<u> </u>
Output Voltage Waveform	Pure	Sine Wave	
Rated Output Voltage	120	(100/105/110Vac)	√
Rated Output Power	2000 (1650/1750/1800VA)	3000 (2500/2625/2750VA)	
Rated Output Power	2000 (1650/1750/1800W)	3000 (2500/2625/2750W)	
Peak Power	4000VA	6000VA	
On-load Motor Capacity	1HP	2HP	
Output Frequency Range(Hz)	50Hz±0.3Hz/	60Hz±0.3Hz	√
Maximum Efficiency	>92	%	
No-load Loss	Non Energy-saving Mode: ≤50W Ener	gy-saving Mode: ≤25W (Manual Setup)	
General			
Certificate	CE(IEC 62109-1)/CETL(UL	1741/ CSA C22.2 NO.107.1)	
EMC Certification Level	EN610	00, C2	
Working Temperature Range	-15°C	~ 55°C	
Storage Temperature Range	-25°C	~ 60°C	
Humidity Range	5% to 95%(Conforma	al Coating Protection)	
Noise	<60	ldb	
Dimensions	378mm*280r	nm*103mm	
Weight	6.8	KG	

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HF24V Low Voltage Series(Max.Voc 100V Rated input voltage 110/120V)



Performance characteristics

·Load friendly: Stable sine wave AC output via SPWM modulation

Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.
 Dual LFP battery activation method: PV&mains

·Uninterrupted power supply: simultaneous connection to utility grid/generator and PV

 $\cdot \text{Intelligent programming: the priority of the output from different energy sources can be set} \\$

·High energy efficiency: up to 99.9% MPPT capture efficiency

Instant viewing of operation: the LCD panel displays data and settings ,while you can also be viewed using the app and webpage

Power saving: power saving mode automatically reduces power consumption at zero-load
-Efficient heat dissipation: via intelligent adjustable speed fans

-Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection, and so on.

Product characteristics



1	Overload Protector	9	Dry Contact Port	
2	ON/OFF Rocker Switch	10	Cooling Fan	
3	AC Input Port	11)	Battery Port	
4	AC Output Port	12	Cooling Fan	16
(5)	Grounding Screw Hole	13	PV Port	(15)-
6	RS485 Communication Port	14)	Light Touch Button	(14)-
7	USB Communication Port	15)	Indicator Light	
8	CAN communication port	16	LCD Screen	



Parameters

Model	ZECO-HF2430H80-S	
Battery Input		
Battery type	Sealed、FLood、GEL、LFP、Ternary	√
Rated Battery Input Voltage	24V (Minimum Startup Voltage 22V)	
Hybrid Charging Maxi		,
mum Charging Current	80A	
Battery Voltage Range	20Vdc~33Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery)	√
Solar Input		
Maximum PV Open-circuit		
Voltage	500vdc	
PV Working Voltage Range	120-500Vdc	
MPPT Voltage Range	120-450Vdc	
Maximum PV Input Current	13A	
Maximum PV Input Power	4000W	
Maximum PV Charging Current	80A	√
AC Input (generator/grid)		
Mains Maximum Charging		
Current	80A	√
Rated Input Voltage	220/230Vac	
Input Voltage Range	UPS Mains Mode: (170Vac~280Vac)±2%APL Generator Mode: (90Vac-280Vac)±2%	√
Frequency	50Hz/ 60Hz (Automatic Detection)	
Mains Charging Efficiency	>95%	
Switch Time (bypass and inverter)	10ms(Typical Value)	
Maximum Bypass Overload Current	30A	
AC Output		
Output Voltage Waveform	Pure Sine Wave	
Rated Output Voltage	230 (200/208/220/240Vac)	√
Rated Output Power	3300 (2850/2950/3150/3300VA)	
Rated Output Power	3300 (2850/2950/3150/3300W)	
Peak Power	6000VA	
On-load Motor Capacity	2HP	
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz	√
Maximum Efficiency	>92%	
No-load Loss	Non Energy-saving Mode: ≤50W Energy-saving Mode: ≤25W (Manual Setup)	
General		
Certificate	CE(IEC 62109-1)	
EMC Certification Level	EN61000, C2	
Working Temperature Range	-15°C ~ 55°C	
Storage Temperature Range	-25°C ~ 60°C	
Humidity Range	5% to 95%(Conformal Coating Protection)	
Dimensions	378mm*280mm*103mm	
Weight	6.9 KG	

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HF48V-H Higher PV Voltage Series(Max.Voc: 500V; Rated input voltage: 220/230V)



Performance characteristics

·Load friendly: Stable sine wave AC output via SPWM modulation

Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.

Dual LFP battery activation method: PV&mains

 $\cdot \text{Uninterrupted power supply: simultaneous connection to utility grid/generator and PV}$

 $\cdot \text{Intelligent programming: the priority of the output from different energy sources can be set} \\$

·High energy efficiency: up to 99.9% MPPT capture efficiency

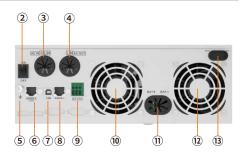
Instant viewing of operation: the LCD panel displays data and settings ,while you can also be viewed using the app and webpage

-Power saving: power saving mode automatically reduces power consumption at zero-load -Efficient heat dissipation: via intelligent adjustable speed fans

-Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection, and so on. under-voltage and over-voltage protection and reverse polarity protection.

Product characteristics





Overload Protector
ON/OFF Rocker Switch
AC Input Port
AC Output Port

7 USB Communication Port

8 RS485-1 Communication Port

- (1) Cooling Fan(1) Battery Port(1) Cooling Fan
- (§) Grounding Screw Hole (§) PV Port
 (§) RS485-2 Communication Port (§) Light Tol
 - Light Touch Button

 Indicator Light

Dry Contact Port

15 Indicator Light
16 LCD Screen



Parameters

Model	ZECO-HF4830H60-S	ZECO-HF4850H80-S	Adjustable
Battery Input			
Battery type	Sealed FLood GEL LFP Ternary		√
Rated Battery Input Voltage	48V (Minimum Sta	rtup Voltage 44V)	
Hybrid Charging Maxi		_	,
mum Charging Current	80/	A	√
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery)		√
Solar Input			
Maximum PV Open-circuit			
Voltage	500v	/dc	
PV Working Voltage Range	120-50	0Vdc	
MPPT Voltage Range	120-45	0Vdc	
Maximum PV Input Current	18/	Α	
Maximum PV Input Power	4400W	5200W	
Maximum PV Charging Current	60A	80A	√
AC Input (generator/grid)			
Mains Maximum Charging			
Current	604	A	√
Rated Input Voltage	220/230Vac		
Input Voltage Range	UPS Mains Mode: (170Vac~280Vac)±2% APL Generator Mode: (90Vac-280Vac)±2%		√
Frequency	50Hz/ 60Hz (Automatic Detection)		
Mains Charging Efficiency	>95%		
Switch Time (bypass and inverter)	10ms(Typic	cal Value)	
Maximum Bypass Overload Current	40/	Α	
AC Output			
Output Voltage Waveform	Pure Sine	e Wave	
Rated Output Voltage	230 (200/208/2	(20/240Vac)	√
Rated Output Power	3000 (2600/2700/2850/3000VA)	5000 (4350/4500/4800/5000VA)	
Rated Output Power	3000 (2600/2700/2850/3000W)	5000 (4350/4500/4800/5000W)	
Peak Power	6000VA	10000VA	
On-load Motor Capacity	2HP	4HP	
Output Frequency Range(Hz)	50Hz ± 0.3Hz/6	60Hz ± 0.3Hz	√
Maximum Efficiency	>90	%	
No-load Loss	Non Energy-saving Mode: ≤50W Energy-	-saving Mode: ≤25W (Manual Setup)	
General			
Certificate	CE(IEC 6	2109-1)	
EMC Certification Level	EN61	000	
Working Temperature Range	-15°C ~	55°C	
Storage Temperature Range	-25°C ~	· 60°C	
Humidity Range	5% to 95%(Conformal	Coating Protection)	
Dimensions	426mm*322n	nm*126mm	
Weight (KG)	10.91	KG	



HF48V-H High Voltage Series(Max.Voc: 500V; Rated input voltage: 110/120V)



Performance characteristics

·Load friendly: Stable sine wave AC output via SPWM modulation

·Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.

·Dual LFP battery activation method: PV&mains

·Uninterrupted power supply: simultaneous connection to utility grid/generator and PV

·Intelligent programming: the priority of the output from different energy sources can be set

·High energy efficiency: up to 99.9% MPPT capture efficiency

Instant viewing of operation: the LCD panel displays data and settings ,while you can also be viewed using the app and webpage

·Power saving: power saving mode automatically reduces power consumption at zero-load

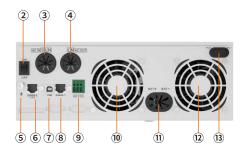
·Efficient heat dissipation: via intelligent adjustable speed fans

Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection, and so on.

·Working without battery under special conditions.

Product characteristics





- Overload Protector
- ON/OFF Rocker Switch
- 3 AC Input Port
- (4) AC Output Port
- (5) Grounding Screw Hole
- RS485-2 Communication Port
 (For BMS)
- 7 USB Communication Port
- 8 RS485-1 Communication Port
- 9 Dry Contact Port10 Cooling Fan11 Battery Port
- (1) Battery Port (1) Cooling Fan
- (3) PV Port
- Light Touch Button

 (15) Indicator Light
- 16 LCD Screen

Parameters

Model	ZECO-HF4835H60-U	ZZECO-HF4850H80-U	Adjustable
Battery Input		1	
Battery type	Sealed FLood G	GEL、LFP、Ternary	√
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)		
Hybrid Charging Maxi			,
mum Charging Current	80	DA .	√
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage V Warning/Overvol	Varning/Shutdown Voltage/Overvoltage tage Recovery)	√
Solar Input			
Maximum PV Open-circuit	450 -1-	500.1	
Voltage	450vdc	500vdc	
PV Working Voltage Range	120-500Vdc	120-500Vdc	
MPPT Voltage Range	120-430Vdc	120-450Vdc	
Maximum PV Input Current	18	BA	
Maximum PV Input Power	4400W	5200W	
Maximum PV Charging Current	60A	80A	√
AC Input (generator/grid)		•	
Mains Maximum Charging			
Current	40)A	√
Rated Input Voltage	110/120Vac		
Input Voltage Range	(90Vac~140Vac)±2%		√
Frequency	50Hz/ 60Hz (Automatic Detection)		
Mains Charging Efficiency	>95%		
Switch Time (bypass and inverter)	10ms(Typical Value)		
Maximum Bypass Overload Current	40A 63A		
AC Output		1	
Output Voltage Waveform	Pure Sii	ne Wave	
Rated Output Voltage	120 (100/1	05/110Vac)	√
Rated Output Power	3500 (2900/3050/3200VA)	5000 (4100/4300/4500VA)	
Rated Output Power	3500 (2900/3050/3200W)	5000 (4100/4300/4500W)	
Peak Power	7000VA	10000VA	
On-load Motor Capacity	2HP	4HP	
Output Frequency Range(Hz)	50Hz ± 0.3Hz	/60Hz ± 0.3Hz	√
Maximum Efficiency	>9	0%	
No-load Loss	Non Energy-saving Mode: ≤50W Energ	y-saving Mode: ≤25W (Manual Setup)	
General			•
Certificate	CE(IEC62109-1)/CETL(UL	1741 CSA C22.2 NO.107.1)	
EMC Certification Level	EN6	1000	
Working Temperature Range	-15°C	~ 55°C	
Storage Temperature Range	-25°C	~ 60°C	
Humidity Range	5% to 95%(Conforma	al Coating Protection)	
Dimensions	426mm*322	?mm*126mm	
Weight (KG)	10.9KG	11.6KG	

Zecollex

Solar Hybrid Inverter - IP65

HES48V-H High Voltage Series(Max.Voc: 500V; Rated input voltage: 220/230V)



Performance characteristics

.Ithas the function of segmented charging and discharging.

.Backflow prevention and grid connection function.

.Insulation resistance and leakage current detection function.

.Working without battery under special conditions.

.Lithium battery activation function, which can be triggered by mains or PV.

.Power saving mode, reduce no-load loss.

.Four charging modes: PV Only, Mains Priority, PV Priority and PV&Mains hybrid char ging.

.Two output modes: mains byp ass and inverter output, with UPS function.

.360° all-round protection.

.Allow lead-acid battery and lithium battery access.

·ON/OFF switch controls the inverter AC output

·Grid-connected mode can be set.

.Adopting full-digital double closed loop control, combined with advanced SPWM.

technology and pure sine wave output.

.Advanced MPPT technology with efficiency of 99.9%. .LCD screen and

three LED indicator lights can clearly indicate the status and data.

.Intelligent and variable-speed fan, efficiently dissipate heat and extend system life.

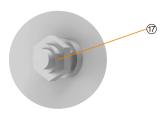
.Multiple safety protection functions: short circuit protection, overload protection, reverse polarity protection and soon.

Product characteristics





AC Input Port
 AC Input Port
 AC Input Port
 Communication Port 1
 Communication Port 2
 Communication Port 3
 Communication Port 3
 Communication Port 4
 Solution Port 4
 Communication Port 4
 Solution Port 4
 Communication Port 4
 Solution Por



Parameters

Model	ZECO-HES4855H100-S	
Battery Input Parameters		•
Battery Type	Lead-acid Battery or Lithium Battery	√
Rated Battery Input Voltage	48V (Minimum Startup Voltage 44V)	
Hybrid Charging Maxi	1004	
mum Charging Current	100A	V
Battery Voltage Range	40Vdc~60Vdc \pm 0.6Vdc(Undervoltage Warning/Shutdown Voltage/Overvoltage Warning/Overvoltage Recovery)	√
Solar Input Parameters		
Maximum PV Open-cir cuit		
Voltage	500Vdc	
PV Working Voltage Range	120-500Vdc	
MPPT Voltage Range	120-450Vdc	
Maximum PV Input Curr ent	22A	
Maximum PV Input P ower	6000W	
Maximum PV Char ging Current	100A	√
Mains Input Parameters		
Mains Maximum Char ging		
Current	60A	√
Rated Input Voltage	220/230Vac	
Input Voltage Range	UPS Mains Mode : (170Vac~280Vac)±2% APL Generator Mode: (90Vac-280Vac)±2%	√
Frequency	50Hz/ 60Hz (Automatic Detection)	
Mains Charging Efficiency	>95%	
Switch Time (bypass and inverter)	10ms(Typical Value)	
Maximum Bypass Overload Current	40A	
AC Output Parameter		
Output Voltage Waveform	Pure Sine Wave	
Rated Output Voltage	230 (200/208/220/240Vac)	√
Rated Output Power	5500 (4780/4970/5260/5500VA)	
Rated Output Power	5500 (4780/4970/5260/5500W)	
Peak Power	11000VA	
On-load Motor Capacity	4HP	
Output Frequency Range(Hz)	50Hz±0.3Hz/60Hz±0.3Hz	√
Maximum Efficiency	>90%	
No-load Loss	Non Energy-saving Mode: ≤100W Energy-saving Mode:≤50W (Manual Setup)	
Basic Parameters		
Certificate	CE(IEC 62109-1)	
EMC Certification Level	EN61000	
Working Temperature Range	-25°C ~ 55°C,>45°C Derating	
Storage Temperature Range	-25°C ~ 60°C	
Humidity Range	0% to 100%	
Waterproof Grade	IP65	
Dimensions	556mm*345mm*182mm	
Weight	20 KG	



HT48V Low Voltage Series(Max.Voc: 145V; Rated input voltage: 220/230V) HT48V Low VoltageSeries(Max.Voc: 145V; Rated input voltage: 110/120V)

Performance characteristics

·Load friendly: Stable sine wave AC output via SPWM modulation

·Supports a wide range of battery technology: GEL, AGM, Flooded, LFP, and program.

·Dual LFP battery activation method: PV&mains

·Uninterrupted power supply: simultaneous connection to utility grid/generator and PV

 $\cdot \text{Intelligent programming: the priority of the output from different energy sources can be set } \cdot \text{High}$

energy efficiency: up to 99.9% MPPT capture efficiency

·Instant viewing of operation: the LCD panel displays data and settings ,while you can also

be viewed using the app and webpage

 $\cdot Power \ saving: power \ saving \ mode \ automatically \ reduces \ power \ consumption \ at \ zero-load \ \cdot Efficient$

heat dissipation: via intelligent adjustable speed fans

·Multiple safety protection functions: short circuit protection, overload protection, reverse

·Horizontal installation, convenient for cabinet combination installation.

·Support BMS communication, CANBUS can be customized

Product characteristics



- ON/OFF Rocker Switch
- (2) CAN Communication Port
- USB Communication Port
- (4) RS485 Communication Port
- 5 Dry Contact Port
- (6) LCD Screen

- (7) Indicator Light
- Light Touch Button
- Overload Protector
- AC Input Port
- (1) AC Input Circuit Breaker
- (12) AC Output Port

- AC Output Circuit Breaker
- Battery Circuit Breaker
- Grounding Screw Hole
- Battery Port
- Cooling Fan

Parameters

Model	ZECO-HT485014580-S	ZECO-HT483514580-U	Adjustable
Battery Input			
Battery type	Sealed FLood G	EL、LFP、Ternary	√
Rated Battery Input Voltage	48V (Minimum Sta	artup Voltage 44V)	
Hybrid Charging Maxi			
mum Charging Current	140A	120A	√
Battery Voltage Range	40Vdc~60Vdc ± 0.6Vdc(Undervoltage W Warning/Overvolt		√
Solar Input			•
Maximum PV Open-circuit			
Voltage	145	vdc	
PV Working Voltage Range	60-14	5Vdc	
MPPT Voltage Range	60-11	5Vdc	
Maximum PV Input Current	50	A	
Maximum PV Input Power	440	oow	
Maximum PV Charging Current	81	DA .	√
AC Input (generator/grid)			
Mains Maximum Charging			,
Current	60A	40A	_ ✓
Rated Input Voltage	220/230Vac	110/120Vac	
Input Voltage Range	UPS Mains Mode: (170Vac~280Vac)±2% APL Generator Mode: (90Vac-280Vac)±2%	(90Vac~140Vac)±2%	√
Frequency	50Hz/ 60Hz (Automatic Detection)		
Mains Charging Efficiency	>95%		
Switch Time (bypass and inverter)	10ms(Typical Value)		
Maximum Bypass Overload Current	63A		
AC Output			
Output Voltage Waveform	Pure Si	ne Wave	
Rated Output Voltage	230 (200/208/220/240Vac)	120Vac (100/105/110Vac)	√
Rated Output Power	5000 (4350/4500/4750/5000VA)	3500 (2900/3050/3200VA)	
Rated Output Power	5000 (4350/4500/4750/5000W)	3500 (2900/3050/3200W)	
Peak Power	10000VA	5000VA	
On-load Motor Capacity	4HP	2HP	
Output Frequency Range(Hz)	50Hz ± 0.3Hz/	60Hz ± 0.3Hz	√
Maximum Efficiency	>90	0%	
No-load Loss	Non Energy-saving Mode: ≤50W Energy	-saving Mode: ≤25W (Manual Setup)	
General			
Certificate	CE(IEC6	2109-1)	
EMC Certification Level	EN610	00, C2	
Working Temperature Range	-15°C -	- 55°C	
Storage Temperature Range	-25°C -	- 60°C	
Humidity Range	5% to 95%(Conforma	I Coating Protection)	
Dimensions	482mm*425i	mm*133mm	
Weight (KG)	13.3	KG	

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SF48V-H High Voltage Series(Max.Voc: 500V; Rated input voltage: 120/240V)



Performance characteristics

·Dual MPPT with up to 99.9% efficienc

·Up to 22A PV input current perfect for high power modules

·Outputs high quality pure sine wave AC power

·8-10kW load power to meet the needs of most households

·Industrial design with a modern aesthetic look

·Easy to install and simple to use

·360 degrees of security from hardware to software

EU and North American safety approvals

·Solar Charger Controller up to 200A charging current

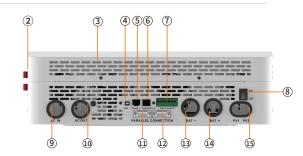
·Support for Li-ion battery BMS communication

·Exclusive Li-ion battery BMS dual activation

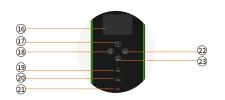
·Time-slot function to save cost with peak-valley tariff

Product characteristics





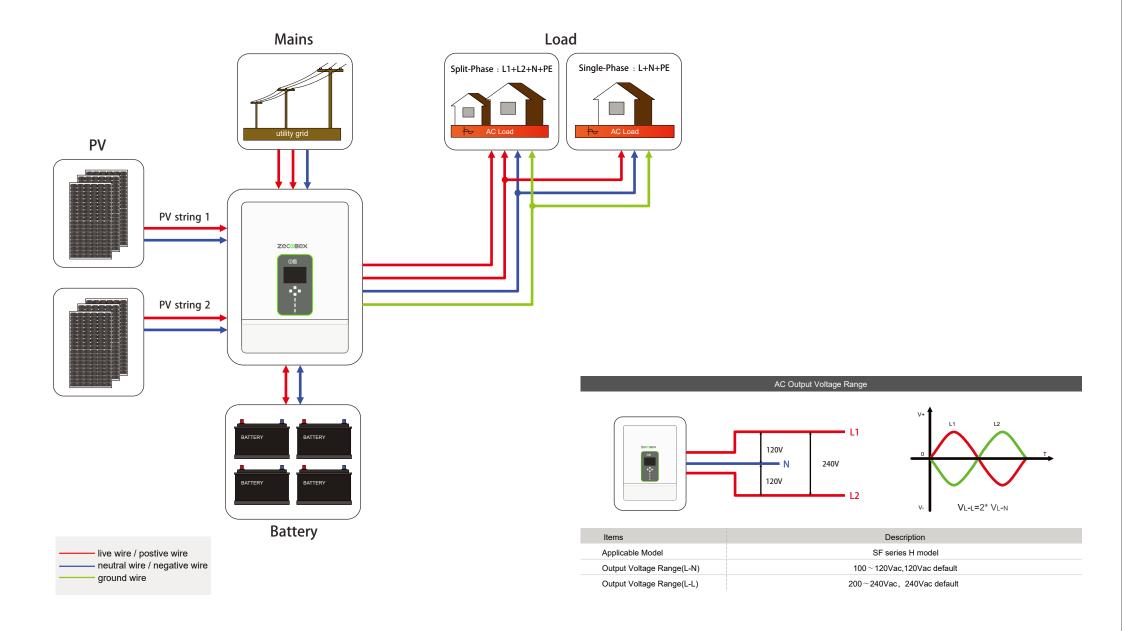
1	Overload Protector	9	AC IN	17	UP
2	ON/OFF Rocker Switch	10	AC OUT	18	SET
3	Coling fan	11)	PARALLEL	19	AC / INV
4	USB	12	CONNECTION	20	CHARGE
(5)	RS485-1	13)	BAT -	21)	FAULT
6	CAN RS485-2	14)	BAT +	22	ENTER
7	DRY CONNECT	(15)	PV1 PV2	23	DOWN
(8)	ON / OFF	16)	LED Display Screen		



Parameters

MODEL	ZECO-SF4880H200-U	ZECO-SF48100H200-U	CA		
	INVERTER OUT PU	Т			
Rated Output Power	8,000W	10,000W			
Max. Peak Power	16,000W	20,000W	- !		
Rated Output Voltage	120/240Vac (L1	120/240Vac (L1/L2/N/PE split phase)			
Load Capacity of Motors	5HP	6HP			
Rated AC Frequency	50/6	60Hz			
Waveform	Pure Sir				
Switch Time	10ms (typical)				
Parallel capacity	1				
	BATTERY				
Battery Type	Li-ion / Lead-Acid / User Defined				
Rated Battery Voltage	48Vdc				
Voltage Range	40-6	40-60Vdc			
Max. MPPT Charging Current	20	200A			
Max. Mains/Generator Charging	100A	120A			
Current Max. Hybrid Charging Current	180A	200A			
Max. Hybrid Charging Current		NPUT 200A			
Num. of MPP Trackers	2				
Max. PV array power					
Max. input current					
Max. Voltage of Open Circuit		22/22A 500Vdc			
MPPT Voltage Range	125-425Vdc				
	MAINS/GENERATOR INPUT				
Input Voltage Range	90-140Vac				
Frequency Range		90-140Vac 50/60Hz			
Bypass Overload Current	-	63A			
Sypass System Carroll	EFFICIENCY				
MPPT Tracking Efficiency	99.9%				
Max. Battery Inverter Efficiency	92%				
, ,	92.70 GENERAL				
Dimensions	620*435*130mi				
Weight	20kg (44lb)	21kg (46.3lb)			
Protection Degree		ndoorOnly			
Operating Temperature Range	-15~55°C,>4	45 C derated			
Noise	(5~131 F, >113 F derated)				
Cooling Method		<60dB			
Warranty	InternalFan 2Years				
vvairanty	COMMUNICATION				
Embedded Interfaces	RS485/CAN/U				
External Modules (Optional)	Wi-Fi/	•			
(=point)		CERTIFICATION			
Safety	IEC62109-1,IEC				
EMC	EN61000-6-1,EN61000-6-3,FCC15classB				
RoHS	Ye				





Zecolex

Solar charge inverter





- 1.Product model:HFP4850S80-145
- 2.Load power:30kw,three-phase 380V
- 3. Power storage capacity: 40Kwh
- 4.PV power:30kw
- 5. Case location: Zhong Shan City, Guang Dong Province, China
- 6.Application scenarios:three-phase can be output, used for villa





- 1.Product model:HFP4850S80-145
- 2.Load power:10kw
- 3. Power storage capacity: 48V 30Kwh
- 4.PV power:12kw
- 5. Case location: CangShang City, YunNan Province, China
- 6.Application scenarios:10KW can be offgrid output



- 1.Product model:HFP4850S80-145
- 2.Load power: 7.5kw three-phase air compressor
- 3. Power storage capacity: 24 batteries for 12V120AH GEL battery
- 4.PV power:18*350W
- 5. Case location: Zhangzhou City, FuJian Province, China
- 6.Application scenarios:For use in the cabin, solar panels are laid on the roof of the cabin, Generators as an auxiliary energy source, three units in three-phase parallel output 380V driving 7.5KW load.





- 1.Product model:HFP4850S80-145
- 2.Load power:7kw
- 3. Power storage capacity:12 batteries for 12V200AH Lead-acid battery
- 4.PV power:about 8KW
- 5. Case location: Zhongshan City, Guangdong Province, China
- 6.Application scenarios:household electricity consumption

experts in PV energy storage management and control

Zecollex





1.Product model:HF2430U60-100

2.Output power:3kw

3.Output voltage:100V

4. Power storage capacity: AGM 24V 210Ah

5.Load power:1HP air conditioner

6.Case location:Japanese kumamoto











- 1.Product model:HF4830S60-H
- 2.Quantity: 9

6.App

- 3.Load power: Public toilets: 300W lighting, 1P air conditioning (735W), and others, approx. 1.5-2kW
- 4. Power storage capacity: 4 batteries for 12V200AH Lead-acid battery
- array(solar panel):8*450W GPS module with years dataflow
- 5. Case location: Chang Zhou City, Jiang Su Province, China
- 6.Application scenarios:Photovoltaic public toilet