

Clean Energy Improves People's Life

Shanghai Easy R-Energy Tech Co.,Ltd.

Introuction

Shanghai EASY R-Energy Tech Co., Ltd has devoted itself on the research, development and sales of renewable energy products. The company is formed by highly qualified professionals, who have both strong technical background and market insight.

Aim of the company is to bring down to earth solar application products to enable people in developing countries to improve their living standard, release them from darkness and shall offer them an opportunity to study, work.

The main products are off grid solar panels, solar home power system, solar home inverter, solar agriculture sprayer, solar water purifier, and solar lighting products. Our products have served many customers in SE Asia, Africa. We are actively exploring opportunity in other regions.



VENUS Solar Eco Range (5-30W)





Electrical Characteristics

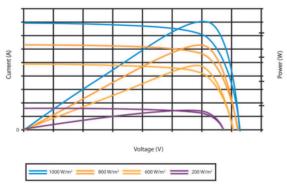
Model**	VE-5/6V	VE-5/12V	VE-10/12V	VE-20/12V
Nominal Maximum Power,Pm(W)*	5	5	10	20
Power tolerance	+/-3%	+/-3%	+/-3%	+/-3%
Open Circuit Voltage,Voc(V)*	10.8	21.6	21.6	21.6
Short Circuit Current,Isc(A)*	0.61	0.61	0.61	1.23
Voltage at Maximum Power,Vmp(V)*	8.64	17.21	17.28	17.28
Current at Maximum Power,Imp(A)*	0.58	0.29	0.58	1.23
Maximum System Voltage(V)	600-1000	600-1000		
Maximum Series Fuse Rating(A)	1	1	5	10
Limiting Reverse Current(A)	1	1	5	10

Under Standard Test Conditions(STC) of 1000W/ m² irradiance, AM 1.5 spectrum and 25 °C cell temperature

Mechanical Characteristics

Model**	VE-5/6V	VE-5/12V	VE10/12V	VE-20/12V				
Size (L×W×T)-mm	185x290x15	185x290x15	300x350x17	510x350x 22				
Weight(kg)	0.85	1.35	1.35	1.95				
Solar Cell Type		Multi crystalline Silicon						
Front Cover		Tempered & Low Iron Glass /3.2 mm						
Encapsulate		Ethylene Vinyl Acetate						
Frame Material		Anodized Aluminum Alloy						
Junction Box								
Cable & Connector			Optional					
Fire Safety Class		С						
Safety Application Class		A						
Safety Class			II					

Current-Voltage & Power-Voltage Curve



Thermal Characteristics

Model**	VE-5/6V	VE-5/12V	VE10/12V	VE-20/12V		
Temperature coefficient of Current			0.0681			
Temperature coefficient of Voltage	0.2941					
Temperature coefficient of Power	-0.3845					
NOCT(°C')	46±2					
Operating temperature range(℃)	-40 to 85					

"/ xxV" in Model indicates the voltage rating of applicable battery

VENUS Solar Combi Range(20-60W)





Cross Constant of the constant

Electrical Characteristics

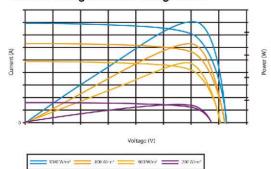
Model**	VE-20/12V	VE-30/12V	VE-40/12V	VE-50/12V	VE-60/12V	
Nominal Maximum Power,Pm(W)*	20	30	40	50	60	
Power tolerance	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%	
Open Circuit Voltage,Voc(V)*	21.6	21.27	21.6	21.6	21.6	
Short Circuit Current, Isc(A)*	1.23	1.88	2.45	3.01	3.62	
Voltage at Maximum Power,Vmp(V)*	17.28	17.13	17.28	17.28	17.28	
Current at Maximum Power,Imp(A)*	1.23	1.76	2.31	2.89	3.48	
Maximum System Voltage(V)			600-1000			
Maximum Series Fuse Rating(A)	10					
Limiting Reverse Current(A)	10					

Under Standard Test Conditions(STC) of 1000W/m irradiance, AM 1.5 spectrum and 25 C cell temperature

Mechanical Characteristics

Model**	VE-20/12V	VE-30/12V	VE-40/12V	VE-50/12V	VE-60/12V			
Size (L×W×T)-mm	350x460x22	350x680x22	485x675x35	520x675x35	675x700x35			
Weight(kg)	1.7	2.1	4.25	5.15	5.7			
Solar Cell Type		Multi crystalline Silicon						
Front Cover		Tempered & Low Iron Glass /3.2 mm						
Encapsulate		Ethylene Vinyl Acetate						
Frame Material		Anodized Aluminum Alloy						
Junction Box		IP65 with Bypass diodes						
Cable & Connector		Optional						
Fire Safety Class		С						
Safety Application Class		A						
Safety Class								

Current-Voltage & Power-Voltage Curve



Thermal Characteristics

Model**	VE-75/12V	VE-85/12V	VE-100/12V	VE-125/12V	VE-160/12V	
Temperature coefficient of Current			0.0681			
Temperature coefficient of Voltage	0.2941					
Temperature coefficient of Power	-0.3845					
NOCT('C')	46±2					
Operating temperature range(C)	-40 to 85					

[&]quot;/ xxV" in Model indicates the voltage rating of applicable battery

VENUS Solar Combi Range (75W-160W)





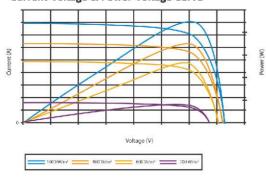
Electrical Characteristics

Model**	VE-75/12V	VE-85/12V	VE-100/12V	VE-125/12V	VE-160/12V
Nominal Maximum Power,Pm(W)*	75	85	100	125	160
Power tolerance	+/-3%	+/-3%	+/-3%	+/-3%	+/-3%
Open Circuit Voltage,Voc(V)*	21.6	21.6	21.6	21.6	22.47
Short Circuit Current,lsc(A)*	4.6	5.3	6.14	7.66	9.43
Voltage at Maximum Power,Vmp(V)*	17.28	17.28	17.28	17.28	17.72
Current at Maximum Power,Imp(A) ^x	4.34	4.92	5.79	7.23	9.03
Maximum System Voltage(V)		-	600-1000		
Maximum Series Fuse Rating(A)	10	10	10	10	10
Limiting Reverse Current(A)	10	10	10	10	10

Mechanical Characteristics

Model**	VE-75/12V	VE-85/12V	VE-100/12V	VE-125/12V	VE-160/12V		
Size (L×W×T)-mm	820x675x35	900x675x35	1025x740x35	1250x675x35	1490x675x35		
Weight(kg)	6.8	7.95	9.9	12.1	14.4		
Solar Cell Type	Multi crystalline Silicon						
Front Cover(Material / Thickness)	Tempered & Low Iron Glass /3.2 mm						
Encapsulate	Ethylene Vinyl Acetate						
Frame Material	Anodized Aluminum Alloy						
Junction Box	IP65 with bypass diodes						
Cable & Connector	Optional						
Fire Safety Class	C						
Safety Application Class	A						
Safety Class			11				

Current-Voltage & Power-Voltage Curve

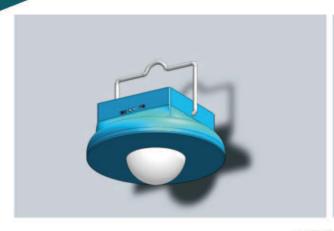


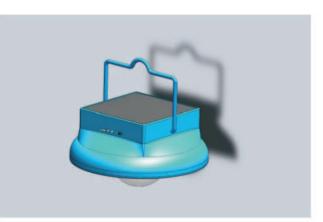
Thermal Characteristics

Model**	VE-75/12V	VE-85/12V	VE-100/12V	VE-125/12V	VE-160/12V	
Temperature coefficient of Current			0.0681			
Temperature coefficient of Voltage	0.2941					
Temperature coefficient of Power	-0.3845					
NOCT(C)	46±2					
Operating temperature range(C)	-40 to 85					

[&]quot;/ xxV" in Model indicates the voltage rating of applicable battery

Solar lantern





M125-I

Performance Details

Dimensions	φ 136*80mm
Full battery run time*(hours)	6 h @ 1 W 100%brightness
Total light output (lumens)	100
Dimmingability (%)	2 stages, 100/50
Solar (built-in) charging time*(hours)	>15
Total area with illumination>50 lux**(m²)	0.5-1m

Lighting Details

Lamp type	LED smd2835
Description of light points	10 LEDs 2W(max)
Colour characteristics	CRI 68 CCT"Cool"(5000-7000K)
Distribution type	Wide

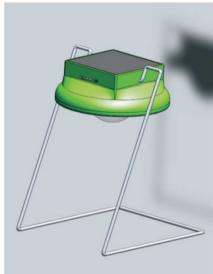
Solar Details

PV module type (External)	A-Si module	
PV maximum power point	0.6W/5V	

Battery Details

Battery chemistry	Li(NiCoMn)
Battery package type	1×18650 package
Battery capacity	2000mAh
Battery nominal voltage	3.7V
Appropriate battery protection circuit	Over discharge, over charge, load short circuit

Solar lantern





M125-Ⅱ

Performance Details

Dimensions	Φ 136*80mm (height ajuestable)
Full battery run time*(hours)	12h @ 0.6W 100%brightness
Total light output (lumens)	100
Solar (built-in) charging time*(hours)	15
Solar (external) charging time*(hours)	7
Total area with illumination>50 lux**(m²)	2m

Lighting Details

Lamp type	LED smd2835	
Description of light points	10 LEDs 2W(max)	
Colour characteristics	CRI68 CCT"Cool"(5000-7000K	
Distribution type	Wide	

Solar Details

PV module type (Built-in)	A-Si module
PV maximum power point	0.6W/5V
PV module type (External)	A- module (105*105)
PV maximum power point	1W/5V

Battery Details

Battery chemistry	Li(NiCoMn)
Battery package type	1×18650 package
Battery capacity	2000mAh
Battery nominal voltage	3.7V
Appropriate battery protection circuit	Over discharge, over charge, load short circuit







Solar Lighting Kit(Li-ion)









- High efficiency PV panel
- Inbuilt long life Lithium battery
- Over charge, over discharge & short circuit protection
- Long life LED bulb for energy efficient long life
- Two USB ports with multiple mobile phone charging tips gives flexibility for charging varieties of mobile phones.
- Compatible for cell phone, Ipad and digital devices (USB), (Android/IOS devices compliable)
- Radio function (optional)

Electrical Characteristics

Charging time	6-8hours	6-8hours	6-8hours
DC output	3pcs/DC3.5	3pcs/DC3.5	3pcs/DC3.5
USB outlet	2PCS/2A	2PCS/2A	2PCS/2A
Solar panel	6W	12W	18W
Battery inside	Lithium	Lithium	Lithium
Type	VEK-4L	VEK-8L	VEK-12L

Mechanical Characteristics

Туре	VEK-4L	VEK-8L	VEK-12L
Dimensions	110*180mm	110*180mm	110*180mm
Weight	0.5kg	1.5kg	3kg

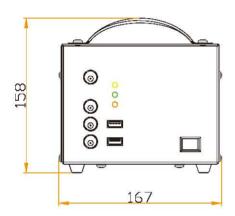
Environmental

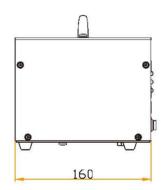
Waterpoof standard	Indoor,IP20
Operating temperature range	-10 ℃ to +45 ℃
RH	Up to 85%

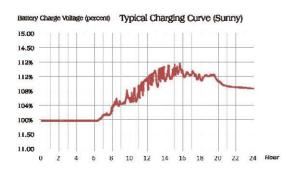


Solar Mini Home Power SyStem(Li-ion)









- High efficiency PV panel
- Inbuilt long life or VRCA bettery
- Over charge, over discharge & short circuit protection
- Long life LED bulb for energy efficient long life
- Additional 12Vdc output provides flexibility for adding optional devices.
- Two USB ports with multiple mobile phone charging tips gives flexibility for charging varieties of mobile phones.
- Easy plug-and-play system with flexibility of table / wall mounting options.
- Color options available

Electrical Characteristics (Li-ion)

Туре	VEPS-20AH(Li)	VEPS-40AH(Li)
Battery inside	Lithium	Lithium
Solar panel	40w/18v	75w/18v
USB outlet	2pcs/2a	2pcs/2a
DC 12V output	3pcs/12v/2A	3pcs/12v/2A
Charging time	6-8hours	6-8hours

Mechanical Characteristics

Туре	VEPS-20AH(Li)	VEPS-40AH(Li)
Dimensions	162*160*158mm	162*160*158mm
Weight	2.7kg	5.6kg

Environmental

Waterpoof standard	Indoor,IP20
Operating temperature range	-10°C to + 45°C
RH	Up to 85%

Electrical Characteristics (VRLA)

Type	VEPS-5AH	VEPS-7AH	VEPS-10AH
Battery inside	12v/5ah	12v/7ah	12v/10ah
Solar panel	10-15w/18v	15-20w/18v	30w/18v
USB outlet	2pcs/5v/500ma	2pcs/500ma	2pcs/500ma
DC 12V output	3pcs/12v/1.5a	3pcs/12v/1.5a	3pcs/12v/1.5a
Charging time	8-10hours	8-10hours	8-10hours



Solar Lighting Kit(Li-ion)



- · High efficiency PV panel
- · Inbuilt long life Lithium battery
- · Over charge, over discharge & short circuit protection
- · Long life LED bulb for energy efficient long life
- Two USB ports with multiple mobile phone charging tips gives flexibility for charging barieties of mobile phones.
- Compatible for cell phone, lpad and digital devices (USB), (Android/IOS devices compliable)
- · radio function (optional)

Electrical Characteristics

Туре	VEK-4L	VEK-8L	VEK-12L
Battery inside	Lithium	Lithium	Lithium
solar panel	6w	12w	18w
USB outlet	2PCS/2A	2PCS/2A	2PCS/2A
Dcoutput	3pcs/DC3.5	3pcs/DC3.5	3pcs/DC3.5
Charging time	6-8hours	6-8hours	6-8hours

Mechanical Characteristics

Туре	VEK-4L	VEK-8L	VEK-12L
Dimensions	110*180mm	110*180mm	110*180mm
Weight	0.5kg	1.5kg	3kg

Environmental

Waterpoof standard	Indoor,IP20
Operating temperature range	−10°C to +45°C
RH	Up to 80%





Solar Home Power System

Product features:

- √ High efficiency mono / multi crystalline PV panel
- √ Inbuilt long life Li-on battery (NMC)
- √ Over charge, over discharge & short circuit protection
- √ Built-in PAYG controller
- √ Upto 20 hrs of lighting time for 4 lamp
- √ Long life & high efficient LED bulb
- √ 6 DC outputs and 2 USB outputs
- √ Plug and play system.
- √ Suitable also for DC LCD TV, DC fan

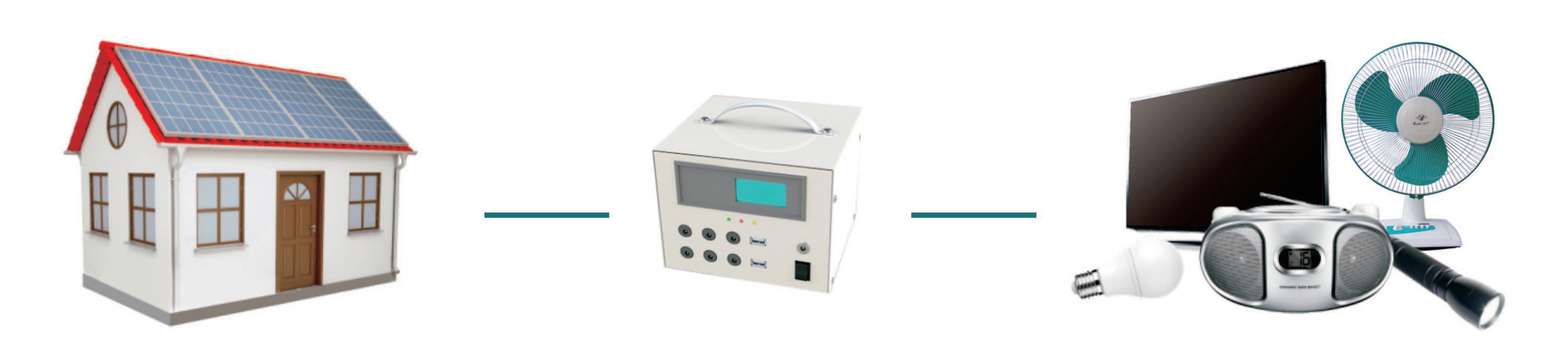


Specification sheets

ltem	VE-SHS- 1212-PAYG	VE-SHS- 1216-PAYG	VE-SHS- 1224-PAYG	VE-SHS- 1236-PAYG	VE-SHS- 1248-PAYG	VE-SHS- 1296-PAYG
Li-on Battery	NMC	NMC	NMC	NMC	NMC	NMC
Battery voltage (V)	11.1	11.1	11.1	11.1	11.1	11.1
Battery capacity (AH)	12	16	24	36	48	96
Input Voltage (V)	18	18	18	18	18	18
Running hours	16	22	36	54	72	144
Rnnung hours for DC TV (15W)	9	12	20	28	38	72

System components

PV panel	30W Poly or Mono, 8 m cable
	-Six 12V outputs
Solar home power pack with PAYG controller	-Two USB outputs
	-12V, 12AH Li-on battery
DC LED lamp	4x2W, 5 m cable
LED torch	USB rechargeable torch
FM radio	DC FM radio



PAYG system

How smart IC card based PAYG system works?

Smart IC card based PAYG system enables end user to enjoy the Solar Product by renting the product from retailer at a small daily fee.

System architecture (see fig 1):

- 1 Service center/sales center/data center
- IC card configuration: Administration card and User card
- Administration card is used for device initiation to set every Solar Product to factory setting (or default setting)
- User card: payment rechargeable card for individual end user
- Initiation every device before shipping by administration card
- 2 Mobile re-charging device
- Mobile re-charge device is installed at retailer or sales agent.
- Retailer sell pre-paid IC card or re-charge IC card by the device.
- Retailer needs to pre-purchase the re-charge limit at service center/sales center/data center
- 3 End User
- End user buys pre-paid IC card to use the solar Product
- End use re-charge the IC card periodically
- End user own the Solar Product fully after the Rental agreement is completed.

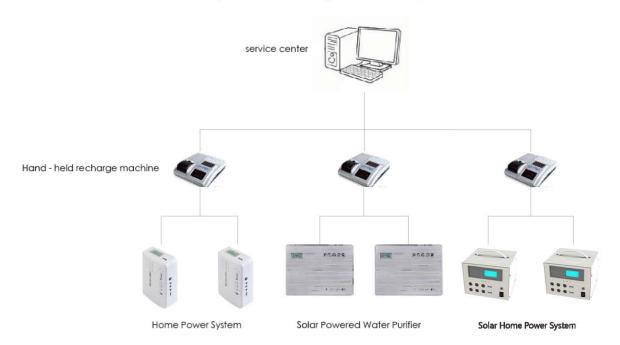


fig 1

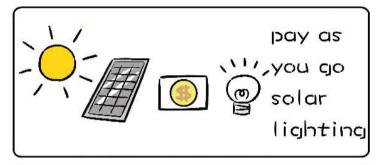
Functions

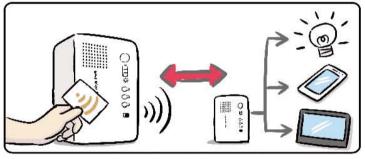
- A Service center/sales center/data center
- 1. Configuration: administration card, user card and solar product
- 2.Retailer and end user registration
- 3. Authorization of charging limit for the mobile re-charge device
- 4.Upload or backup data from mobile re-charge device.
- 5. Operational management of mobile re-charge device
- After sales service

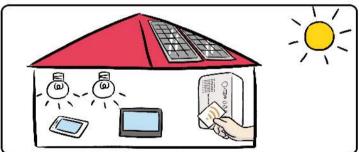
- B Mobile re-charge device
- 1.Re-charge IC card
- 2. After sales service for IC card, lost report, replacement etc.
- C End user
- 1.Buy IC card at desire amount
- 2.Use the solar device based on pre-paid amount.

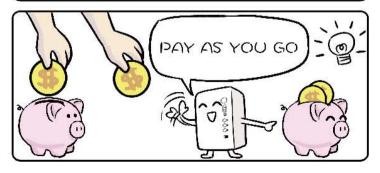
PAYG system

- Smart IC based payment system enables lower entry barrier to end users
- · Low cost ownership for end user
- · Plug and Play system













Single phase power frequency pure sine wave inverter / pure sine wave UPS

(Built in large current smart charger, solar power complementary function)









'ommon n	oarameters	ँ	10	1987)			33	30
Appearance	Net weight	6	10	14	20	22	35	50
	External Size L*W*H(mm)	345*1	02*155	383*140*210		429*192*357		590*310*61
Battery	DC Voltage	12V	3	24V	24/	48V	48V/9	6V/120V
	Transfer time			E	Sypass 4-6ms			
Output	AVR Voltage range (VAC)			100/110/120/127/	220/230±10%	(Auto-sensing)		
Input	Commercial power range(VAC)			100/110/120/12	7/220/230 (+	25%, -35%)		
	Rated capacity (W)	300W	700W	1000W	1500W	2000W	3000W	4000W
Model	V-SINE	300W	700W	1000W	1500W	2000W	3500W	4000W
Model	V-SINE****	500VA	1000VA	1500VA	2000VA	3000VA	5000VA	6000VA

Input	Frequency (Hz)	45-65			
0	Waveform	Pure	sine wave		
Output	Frequency	50Hz/60Hz±0.5%			
Protection	Overload		ery protecting;surge and pike-currents protecting, overload 00ms; >150%, 50ms output short circiut <150ms		
	Туре	Sealed, mai	ntenance-free lead acid		
Battery	Recharge current	15A(Maximum)	20A(Maximum)		
	Battery protection	Automatic self-test, discharge protection, o	over-chargeing protected, smart management system.		

SOLAR INVERTER

(Built in solar charger, DC & AC out)



- 1.Integrated with an in-built Solar Charge Controller that enables the conversion of solar power to electricity.
- 2.It is designed to give you maximum benefit from the sun and minimize your electricity bill.
- 3. Multi-protection functions
- 4. Contemporary, futuristic design.
- 5. Affordable pricing to suit any budget
- 6. Easy system installation

Model	V-SINE***	500VA		
Model	V-SHIVE (1966) (300W		
	Rated capacity(W)	300W max		
Solar input Solar panels voltage (no load)		18V		
	AC	220/230±10% 50Hz 《300W		
Output	USB	5V		
	DC	12V / 5A max		
Appearsnce	External Size(mm) L×W×H	242mm (L)*203mm(W)*106mm(H)		
protection overload		Input/output over high or low protecting; low battery protecting; surge and pike-currents protecting; overload protecting 100%-120% 30sec; >120% 100ms; >150%, 50m output short circiut <150ms		
	TYPE	Sealed, maintenance-free lead acid		
	DC Voltage	12VDC		
Battery	Recharge current	25A(Maximum)		
	Battery protection	Automatic self-test, discharge protection, over-chargeing protected		

Solar Home Power System 150W&300W

- Zero Energy Bill
- Solution for remote area or area short of power supply
- Plug&Play system, easy to install
- Multi protection product design(over charge, over voltage, low voltage ,over heat ,false connection and short circuit protection)



Zero Energy Bill

Plug & Play





Battery



Solar panel



Inverter



Type	EPS-150w	EPS-300W
Solar Panel	100W / 150W	100W / 150W
Inverter	150W(AC 220V)	300W(AC 220V)
Battery	12V 60AH	12V 100AH
	LCD TV(30W) 24hrs	LCD TV(30W) 40hrs
Patton, Endurance	LED bulb(5W) 144hrs	LED bulb (5W) 240hrs
Battery Endurance (Battery full power)	Fan(30W) 24hrs	Fan(30W) 40hrs
	Mobile,PAD(5W) 144hrs	Mobile,PAD(5W) 240hrs



- Composition: Solar panel, charge controller, battery and inverter.
- Solar panels absorb sunlight and transfer to electricity by charge controller, then store in battery.
- Inverter will cut the output automatically, when it is over heat.
- Inverter will shut down automatically, when it is over voltage.
- And back to work when it recovers

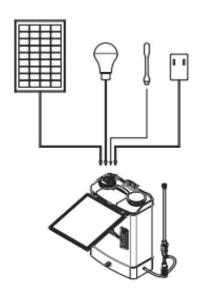
Solar Powered Agri-Sprayer





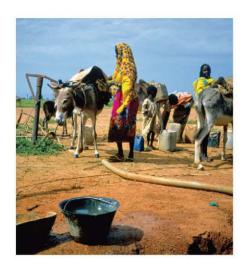
Under direct sunlight, while charging and discharging
Battery over charge protection,
Battery over discharge protection
Battery capacity display
DC lamp support
DC fan support
Android mobile phone / pad charging
Apple mobile phone / pad charging
USB charging



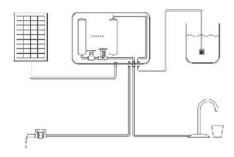


8 to 12 hrs	
18W	
12V 3.0A(max)	
6.8Bar cut off	
4.0 LPM	
5V/2.5A	
USB led / 12V led	
Li-on battery	
Multi-function copper nozzle	
FM radio	
AC / DC charger	
Pump motor speed controller	
16 Liters	

Solar Powered Water Purifier



- Solar powered water purifier with Li battery offers an environmental way for rural area. The system can be equipped with a smart PAY device to enable small enterprise to sell clean water to rural residence.
- UF filter based water purifier can filter all particles upto 0.1 um, the purified water is more safe to drink, suitable for most kinds of source water, like river, lake and well, however, it can't work with salty water.
- RO filter based water purifier suits all types source water with TDS<500. TDS of purified can be lowered to 50.



- Long service life: Use safe plastic and against corrosive and durable.
- Plug and play system



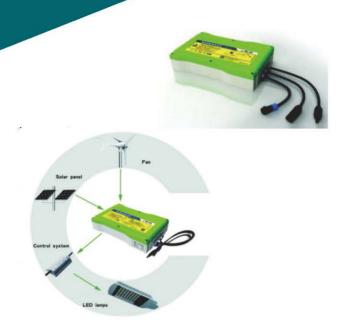






Model	VE-WUF-15	VE-WRO-75
Name	Solar powered multi -stage UF water purifier	Solar powered multi-stage RO water purifier
Source water	Tap water,surface water (river, lake, well)	Tap water, surface water (river, lake, well)
Filtration	0.01µm	0.0001µm
Output flux	0.5-2L/min	6L/hr
TDS (purified water)	< Inlet water	<50 (Desalination rate >90%)
Capacity/day	240L-480L	40L-80L
Working pressure	0.1Mpa-0.4Mpa	0.5Mpa-0.8Mpa
Working Temperature	5-45 C	5-45 °C
Filter	Activated carbon Antibacterial Activated Carbon UF Hydrophilic membrane	Activated carbon Antibacterial Activated Carbon RO Activated carbon Activated carbon
Storage tank	No	Optional
Waste water	Optional	>15L/hr
Solar panel	10W	20W
DC Power	<10W	<20W
Method of installation	Standing ,Wall hanging	Standing ,Wall hanging

Li-ion Battery Storage System & Application Products



LI-ION BATTERY INTELLIGENT STORAGE AND CONTROL SYSTEM

The li-ion battery intelligent solar streetlights our company developed utilize the highly reliable LiFePO and ternary li-ion battery as the energy storage unit. The battery has such advantages as high energy density ,extremely long cycle life, favorable temperature property ,and excellent safety performance. With the further breakthrough in the li-ion battery technology ,which is an ideal solution to the green city ,its cost performance will be higher ,and has been widely used in such areas as energy storage and electric vehicles.

The new li-ion battery is a small ,light and optimized intelligent management system ,and it can real time monitor and protect the charging and discharging electric current of li-ion batteries as well as its unit voltage.

Regardless of the production ,use and scrap ,the battery is by no means generate any lead ,meroury ,cadmium and other poisonous heavy metal elements and substances,so it is green and environmental protection.

Power of insecticidal light	10W-20W
System voltage:	12V/24V
Max short circuit protection current:	40A
Reaction time for short circuit protection	<0.8ms
Over current protection current	20A
Reaction time for over current protection	<2s
Working termperature	10-55C
Battery capacity	10-20ah
Running hours (battery in full charge)	7 nights
Battery storage temperature	-20-55C
Power of Solar panel	40-80W/18V

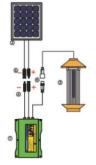












Solar Insecticidal Lamp Series

Solar insecticidal lamp uses the solar panels as electricity source, which will be stored in the solar energy during the day, and discharge at night to be used for insecticidal lamps. The property and principle of insecticidal lamps is to use ultraviolet light of 3.65 nm wavelength having strong phototaxis, chemotaxis wave and chemotaxis color, Taxis, and determine laser-induced wavelength of insects, study the specialized light source, utilize the low-temperature Plasma of generated by discharging, ultraviolet light directly generates the phototaxis hormesis to insects, induct the insects to jump on the light source, equip the high-voltage net for killing the pests outside the light source to kill pests and make them fall down the specialized bag for pests and finally kill them.

Solar Street Light

Solar street light system

life:8-10 years

Working style: weak lighting all night can be installed the default, and the cloudy continues for 10-15 days as consistently working;

- 1. Charging style: weak light charging, and the cloudy can charge more than 15% every day on the average;
- 2.Build in advanced intelligent BMS microcomputer-based system management control with following functions such as over-discharging, overcurrent, temperature, alerting, and triple protection, and meanwhile, it can well communicate.
- 3. Automatically management in charging and discharging. The charging and discharging electric current in automatically testing battery of monittoing unit can manage the constant floating charge in a balanced way.



Power of LED light	10W-40W
System voltage:	12V/24V
Max short circuit protection current:	40A
Reaction time for short circuit protection	<0.8ms
Over current protection current	20A
Reaction time for over current protection	<2s
Working termperature	0-55C
Battery capacity	10-40ah
Running hours (battery in full charge)	7 nights
Battery storage temperature	-20-55C
Pole height	4-6 m
Protection grade	IP 65
Power of Solar panel	40-120W/18V

Power of LED light	40W-120W	
System voltage:	12V/24V	
Max short circuit protection current:	40A	
Reaction time for short circuit protection	<0.8ms	
Over current protection current	20A	
Reaction time for over current protection	<2s	
Working termperature	0-55C	
Battery capacity	40-120ah	
Running hours (battery in full charge)	7 nights	
Battery storage temperature	-20-55C	
Pole height		
Protection grade	IP 65	
Power of Solar panel	120W-360W/18V	



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