



Portable Solar Generator

(300W~3000W)



PORTABLE SOLAR GENERATOR

(300W~3000W)



Product Introduction

This unit is multi-function portable solar generator which uses energy from the sun to produce pure sine wave output. This unit integrates a battery pack (including LiFePO4 Battery or Lead Acid Battery), MPPT/PWM solar charge controller, and an inverter into a compact system to turn solar energy into an electrical current. Each component is designed to match the electricity rating of the device that is receiving power.

Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, adjustable working modes. AC / Solar can charge battery bank at the same time or configurable AC / Solar input priority via LCD setting, and isolation transformer design provides robust power protection and galvanic isolation.

This unit integrates frequencies from 87.5 MHz to 108MHz FM Radio. Listen to all your favorite music and news by choosing your favorite radio stations. Also, you can use MP3 player, USB flash disk to listen music songs offline.

This unit not only provides DC output for DC power application like LED light, DC fan, but also provides USB ports to quickly charge consumer electronics devices like mobile phone.

This unit is ideal for home appliances, portable electronics, and some industrial tools. Smartphones, tablets, and portable GPS technology can be charged several hundred times through solar energy. Besides, it's worry-free to start up motor-type loads such as refrigerators, motors, compressors and laser printers.

Product Features

- 1 Pure sine wave output
- Widely input voltage range
- 3 4 working modes selection
- 4 8 fast-charging USB ports
- 5 Well-designed for ease of portability
- 6 Convenient with more power output like AC, USB, and 12VDC/24VDC
- 7 FM Radio function, also can support MP3, USB flash disk and memory card

- 8 Easy to set up even during an emergency
- 9 LCD display to show charging and dispensing progress
- 10 Auto restart while AC is recovering
- 11 Overload and short circuit protection
- (12) Compatible to mains voltage or generator power
- Metal case to make the product difficult to deform to guarantee long lifetime usage
- Mart multi-stage battery charger with optional equalization for optimized battery performance

How IT Works:



POWER UP INDOORS&OUTDOORS

Multipurpose Power Supply



Solar Support

Besides your AC wall outlets, you can also use a portable solar panel to power up this portable solar generator. Because of this, you'll have access to unlimited power while you're enjoying the great outdoors.



USB Type-C

This portable solar generator supports 8 fast-charging USB ports output that allow you to fast charge all your latest electronics devices. Whether it's your smartphone or tablet, from now on you'll never run out of power again.

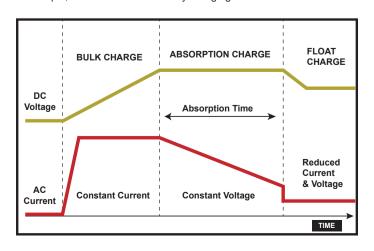


Uninterruptible Power Supply (UPS)

The power bank is completely immune to power outages, making it the perfect gadget to be used during emergencies at home, in the office, and outdoors; supports all necessary safety features.

Three Charging Stages

This unit charge controller has a 3-stage battery charging algorithm for a rapid, efficient and safe battery charging.



Bulk Charge:

This algorithm is used for day to day charging. It uses 100% of available solar power to recharge the battery and is equivalent to constant current.

Absorption Charge:

When the battery has charged to the Absorption voltage set-point, it undergoes an absorption stage which is equivalent to constant voltage regulation to prevent heating and excessive gassing in the battery.

Float Charge:

After Absorption Charge, the controller will reduce the battery voltage to a float voltage set point. Once the battery is fully charged, there will be no more chemical reactions and all the charge current would turn into heat or gas. Because of this, the charge controller will reduce the voltage charge to smaller quantity, while lightly charging the battery. The purpose for this is to offset the power consumption while maintaining a full battery storage capacity. In the event that a load drawn from the battery exceeds the charge current, the controller will no longer be able to maintain the battery to a Float set point and the controller will end the float charge stage and refer back to bulk charging.





Overheating





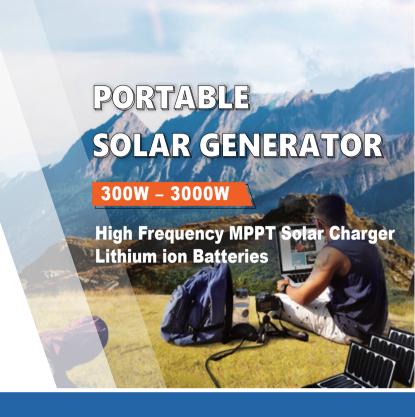


Over Discharg Protection



Short-Circ





Product Introduction

This portable solar generator is equipped with MPPT solar charge controller to maximize and regulate DC power from the solar panels(array) for charging the battery bank.

This unit consists of Lithium-ion battery pack that stores electrical energy, FM Radio, MPPT solar charge controller that can be efficiently charged via the sun in lightly cloudy weather, inverter converts 12V/24V to normal electricity. In addition, this unit does not require any gas to run and also does emit any toxic fumes like standard gas generators can, not to mention it does not produce any sound. With the included solar panel(s), this unit is a complete solar electric production and storage unit.



MPPT Control Technology



AC/Solar Charging



Light Weight and Portable



USB Smart Charger



LCD Display and Easy to Operate



Multiple Output Voltage



Pure Sine Wave Output



Built-in Lithium-ion Battery

Product Details

- 1. Fan
- 2. Light ON/OFF
- 3. LED Emergency Light
- 4. FM Radio Antenna
- 5. AC Output
- 6. DC Output
- 7. AC Input
- 8. PV/DC Input
- 9. USB Output
- 10.DC Output ON /OFF





- 11.LED Indicates
- 12.LCD Display
- 13.Function Button
- 14.FM Raido
- 15.Speaker

Selection Guide (300W~3000W) LI MPPT

		PIM3	00-Li ~ PIM3000)-Li				
	Model	PIM300-Li	PIM500-Li	PIM1000-Li	PIM2000-Li	PIM3000-Li		
PHASE RATED POWER Dimension DxWxH (mm)		300W	500W 213x240	phase in/1-phase out 1000W 456x269x434	2000W	3000W 13x475		
Net Weight (kgs)		6.27	10.77	15.27	36.08	38.30		
	INPUT	0.2.	10		00.00	30.00		
	Voltage		110Vac/120Vac/12	27Vac / 220Vac/230Vac/2	40Vac(+25%,-35%)			
	Frequency Range			50 Hz/60 Hz (Auto sensin	g)			
	OUTPUT							
	AC Voltage Regulation (Batt. Mode) Frequency	110Vac/120Vac/127Vac / 220Vac/230Vac/240Vac ± 5% 50Hz/60Hz ± 0.5Hz						
AC	Surge Power	900W	1500W	3000W	6000W	9000W		
OUTPUT	Efficiency (Peak)	8	33%	8	6%	89%		
	Transfer Time	<=8 ms						
	Crest Factor	3:1						
	Waveform			Pure sine wave				
	DC Voltage	12	:VDC		24VDC			
	DC Current	2A * 4 Ports	s / 30A Socket	2	A * 4 Ports / 60A Socke	t		
DC	High-voltage Protection	16VDC			32VDC			
OUTPUT	High-voltage Recovery		2VDC		30.4VDC			
	Low-voltage Protection		VDC		22VDC			
	Low-voltage Recovery	12.	6VDC	EV/DC 04 * 0 7 :	25.2VDC			
	USB Interface LED LIGHTING			5VDC 3A * 8 Ports				
Emergency	Power			3W				
Light	Input Voltage	12	.VDC	300	24VDC			
3	Power	12	. V D O	3W	24700			
External	Input Voltage	12VDC 24VDC						
Light	Base	E27						
	Cable	303 ON/OFF Power Cord						
	FM RADIO							
	Audio Output			2 x 3W				
	FM Frequency			87.5 MHz to 108 MHz				
E	BATTERY & AC CHARGER							
	Battery Voltage	12VDC						
	Battery Type		I	LiFePO4 Battery				
	Battery Capacity	12.8V 30AH	12.8V 50AH	25.6V50AH	25.6V100AH	25.6V150AH		
	Floating Charge Voltage		6VDC		29.2VDC 29.6VDC			
MDDT S	Overcharge Protection DLAR CHARGER & AC CHARGER	14.	8VDC		29.6VDC			
	Maximum PV Array Power	360W		720W 1440W				
	ray Open Circuit Voltage Range	300**		18VDC - 130VDC	1-	TO V V		
	PV Array Open Circuit Voltage			145VDC				
	Max. Solar Charge Current	30A 60A			0A			
	MPPT Efficiency	33.1		99.5%				
	Start Charging Current	16.8V		29.6V				
Low	Input Voltage Protection Point	13.8V		26.6V				
	Max. AC Charge Current	10A 5A			A 15A			
	PROTECTION							
	Overload Protection	Full load 100%, Inverter alarm. Overload 120%, Inverter shuts down output in 10s.Once the load back to normal, Inverter recovers output.						
	Output Short Circuit		Shut down automatically.					
High AC Input Voltage		Turn off AC,transfers to inverter mode automatically.						
Low Battery Voltage		Shut down automatically. Once the AC input recovers, inverter turns on and charge automatically.						
Over Temperature Shut down automatically.								
	SYSTEM	100 :150						
Display	Display Contents	LCD + LED						
	Display Contents Working Modes	Input/Output Voltage, Input/Output Current, Battery Voltage, Battery Capacity, Loading Power, Working Modes 1 - Normal Working Mode, 2 - Solar Priority Mode, 3 - Battery - Inverter Mode, 4 - Energy Saving Mode						
	Working Modes Communication Interface	i - Noiiilai VVO	ining wode, Z - Solar P	RS232/SNMP Optiona		ay Saving Mode		
	PERATING ENVIRONMENT			NOZOZIOININI OPIIOIIA				
	Humidity		5% to 95	% Relative Humiditv(Non-	-condensing)			
Altitude		5% to 95% Relative Humidity(Non-condensing) <3000m						
	Operating Temperature	0°C to 55°C						



















PORTABLE SOLAR GENERATOR

300W - 3000W

High Frequency PWM Solar Charger **Lithium ion Batteries**

Product Introduction

This portable solar generator is equipped with PWM solar charge controller to maximize and regulate DC power from the solar panels(array) for charging the battery bank.

This unit consists of Lithium-ion battery pack that stores electrical energy, FM Radio, PWM solar charge controller that can be efficiently charged via the sun in lightly cloudy weather, inverter converts 12V/24V to normal electricity. In addition, this unit does not require any gas to run and also does emit any toxic fumes like standard gas generators can, not to mention it does not produce any sound. With the included solar panel(s), this unit is a complete solar electric production and storage unit.



PWM Control Technology



AC/Solar Charging



Light Weight And Portable



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LCD Display and Easy to Operate



Multiple Output Voltage



Pure Sine Wave Output



Built-in Lithium-ion Battery

Product Details

- 1. Fan
- 2. Light ON/OFF
- 3. LED Emergency Light
- 4. FM Radio Antenna
- 5. AC Output
- 6. DC Output
- 7. AC Input
- 8. PV/DC Input
- 9. USB Output
- 10.DC Output ON /OFF





11.LED Indicates

12.LCD Display

13.Function Button

14.FM Raido

15.Speaker

Selection Guide (300W~3000W) LI PWM

		PIP30	00-Li ~ PIP300	0-Li				
	Model	PIP300-Li	PIP500-Li	PIP1000-Li	PIP2000-Li	PIP3000-Li		
	PHASE			1-phase in/1-phase out				
	RATED POWER	300W	500W	1000W	2000W	3000W		
	Dimension DxWxH (mm)		13x192	456x269x434	510x3	13x475		
	Net Weight (kgs)	5.17	9.69	14.17	35.00	37.20		
	INPUT							
	Voltage		110Vac/120Vac/12	27Vac / 220Vac/230Vac/240	Vac(+25%,-35%)			
	Frequency Range			50 Hz/60 Hz (Auto sensing)			
	OUTPUT							
	AC Voltage Regulation (Batt. Mode)		110Vac/120V	/ac/127Vac / 220Vac/230Vac	c/240Vac ± 5%			
	Frequency	50Hz/60Hz ± 0.5Hz						
AC	Surge Power	900W	1500W	3000W	6000W	9000W		
OUTPUT	Efficiency (Peak)	83	3%	86	5%	89%		
	Transfer Time	<=8 ms						
	Crest Factor			3:1				
	Waveform			Pure sine wave				
	DC Voltage	12\	/DC		24VDC			
	DC Current	2A * 4 Ports / 30A Socket		2	A * 4 Ports / 60A Socke	t		
DC	High-voltage Protection	16\	/DC		32VDC			
OUTPUT	High-voltage Recovery		:VDC		30.4VDC			
	Low-voltage Protection	11\	/DC		22VDC			
	Low-voltage Recovery	12.6VDC		25.2VDC				
'	USB Interface			5VDC 3A * 8 Ports				
	LED LIGHTING							
Emergency	Power							
Light	Input Voltage	12\	/DC	3W 24VDC				
	Power			3W				
External	Input Voltage	12VDC 24VDC						
Light	Base	E27						
J.	Cable	303 ON/OFF Power Cord						
	FM RADIO							
	Audio Output			2 x 3W				
	FM Frequency			87.5 MHz to 108 MHz				
В	ATTERY & AC CHARGER							
_	Battery Voltage	12VDC 24VDC						
	Battery Type			LiFePO4 Battery				
	Battery Capacity	12.8V 30AH	12.8V 50AH	25.6V50AH	25.6V100AH	25.6V150AH		
	Floating Charge Voltage		VDC		27.4VDC			
	Overcharge Protection	14.0VDC 28.0VDC						
MPPT SC	LAR CHARGER & AC CHARGER							
	Solar Controller Type			PWM				
	laximum PV Array Power	36	0W	720W	144	WOW		
	ay Open Circuit Voltage Range	10 - 25VDC		20 - 50VDC				
	PV Array Open Circuit Voltage	25VDC		50VDC				
	lax. Solar Charge Current	30A		30A 60A				
	Max. AC Charge Current	10A		10A	15A			
	PROTECTION							
	Overload Protection	Full load 100% Inverter	alarm. Overload 120% Inv	verter shuts down output in 10s One	ce the load back to normal Ir	verter recovers output		
	Overload Protection Output Short Circuit		Full load 100%, Inverter alarm. Overload 120%, Inverter shuts down output in 10s.Once the load back to normal, Inverter recovers output. Shut down automatically.					
High AC Input Voltage		Turn off AC, transfers to inverter mode automatically.						
Low Battery Voltage		Shut down automatically. Once the AC input recovers, inverter turns on and charge automatically.						
Over Temperature		Shut down automatically. Once the AC input recovers, inverter turns on and charge automatically. Shut down automatically.						
	Snut down automatically. SYSTEM							
	Display	LCD + LED						
Display	Display Contents	Input/Output Voltage, Input/Output Current, Battery Voltage, Battery Capacity, Loading Power, Working Mode:						
	Working Modes							
	Communication Interface	1 - Normal Working Mode, 2 - Solar Priority Mode, 3 - Battery - Inverter Mode, 4 - Energy Saving Mode RS232/SNMP Optional						
	PERATING ENVIRONMENT			NOZOZ/ONIVIE OPUONAL				
- OI			E0/. += (05% Relative Humidity/Nas	condensing)			
	Humidity Altitude		5% (0 8	95% Relative Humidity(Non-	condensing)			
				<3000m				
	Operating Temperature			0°C to 55°C				



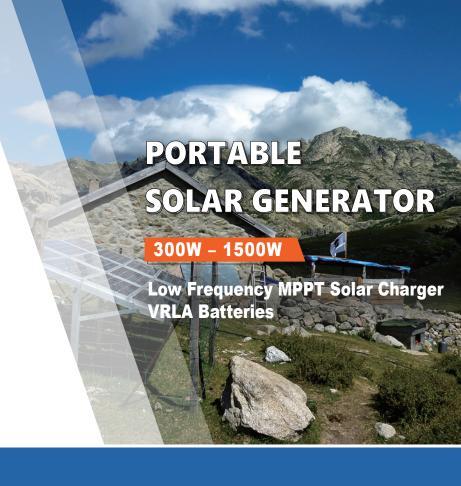












Product Introduction

This portable solar generator is equipped with MPPT solar charge controller to maximize and regulate DC power from the solar panels(array) for charging the battery bank.

This unit consists of VRLA battery pack that stores electrical energy, FM Radio, MPPT solar charge controller that can be efficiently charged via the sun in lightly cloudy weather, inverter converts 12V/24V to normal electricity. In addition, this unit does not require any gas to run and also does emit any toxic fumes like standard gas generators can, not to mention it does not produce any sound. With the included solar panel(s), this unit is a complete solar electric production and storage unit.



MPPT Control Technology



AC/Solar Charging



Light Weight and Portable



USB Smart Charger



LCD Display and Easy to Operate



Multiple Output Voltage



Pure Sine Wave Output



Large Capacity Engery

Product Details

- 1. LCD Display
- 2. DC Output ON /OFF
- 3. DC Output
- 4. USB Output
- 5. FM Radio Antenna
- 6. LED Emergency Light
- 7. Light ON/OFF
- 8. Speaker
- 9. FM Radio





- 10. AC Output
- 11. RS232 Interface
- 12. Fan
- 13. AC Input
- 14. PV/DC Input
- 15. Master ON/OFF

Selection Guide (300W~1500W) VRLA MPPT

		PIN	M300 ~ PIM150	00				
	Model	PIM300	PIM500	PIM1000-12	PIM1000-24	PIM1500		
	PHASE			1-phase in/1-phase out	1			
	RATED POWER	300W	500W	100	W00	1500W		
Dimension DxWxH (mm)			456	x269x434		510x313x475		
	Net Weight (kgs)	20.07	22.45	47.82	51.42	76.68		
	INPUT							
	Voltage		110Vac/120Vac/	127Vac / 220Vac/230Vac/2				
	Frequency Range OUTPUT			50 Hz/60 Hz (Auto sensin	9)			
	AC Voltage Regulation (Batt. Mode)		110\/ac/120\	/ac/127\/ac / 220\/ac/230\/a	ac/240\/ac + 5%			
	Frequency	110Vac/120Vac/127Vac / 220Vac/230Vac/240Vac ± 5% 50Hz/60Hz ± 0.5Hz						
AC	Surge Power	900W 1500W 3000W 4500W						
OUTPUT	Efficiency (Peak)	81% (Battery Mode) / 93% (AC Mode)						
	Transfer Time	<=8 ms						
	Crest Factor	3:1						
	Waveform			Pure sine wave				
	DC Voltage	12VDC			24\	/DC		
	DC Current	2A * 4 Ports / 30A Socket			2A * 4 Ports / 60A Socket			
DC	High-voltage Protection	16VDC			32VDC			
OUTPUT	High-voltage Recovery		15.2VDC			VDC		
	Low-voltage Protection		11VDC			/DC		
	Low-voltage Recovery USB Interface		12.6VDC	5\/DC 2A * 0 Dorto	25.2	VDC		
	LED LIGHTING			5VDC 3A * 8 Ports				
Emergency	Power			3W				
Light	Input Voltage		12VDC	011	24\	/DC		
	Power			3W				
External	Input Voltage	12VDC 24VDC				/DC		
Light	Base	E27						
	Cable		303 ON/OFF Power Cord					
	FM RADIO							
	Audio Output			2 x 3W				
	FM Frequency			87.5 MHz to 108 MHz				
E	BATTERY & AC CHARGER							
	Battery Voltage		12VDC		1	/DC		
	Battery Type	1*12V 33AH	va 1*12V 55AH	lve-Regulated Lead-acid B 1*12V100AH	2*12V55AH	4*12V55AH		
	Battery Capacity Floating Charge Voltage	1 12V 33AH	13.5 VDC	1 12 V 100AH		VDC		
	Overcharge Protection		15.5 VDC			VDC		
MPPT SO	OLAR CHARGER & AC CHARGER		10.0 100		01.0	VB 0		
	Maximum PV Array Power	360W			72	0W		
	PV Array Open Circuit Voltage Range		18VDC - 130VDC					
Max.	PV Array Open Circuit Voltage	130VDC						
N	Max. Solar Charge Current	30A						
	MPPT Efficiency			99.5%				
	Start Charging Current	16V			28V			
Low	Input Voltage Protection Point	13V 25V				5V		
	Max. AC Charge Current	0 - 20A (adjustable)						
	PROTECTION							
	Overload Protection	Full load 100%, Inverter alarm. Overload 120%, Inverter shuts down output in 10s.Once the load back to normal, Inverter recovers output.						
Output Short Circuit		Shut down automatically.						
High AC Input Voltage		Turn off AC, transfers to inverter mode automatically.						
Low Battery Voltage		Shut down automatically. Once the AC input recovers, inverter turns on and charge automatically. Shut down automatically.						
	Over Temperature SYSTEM			onut down automatically.				
	Display			LCD + LED				
Display	Display Contents	Input/Output Voltage, Input/Output Current, Battery Voltage, Battery Capacity, Loading Power, Working Mode						
Display Contents Input/Output Voltage, Input/Output Current, Battery Voltage, Battery Capacity, Loading Power, Working Modes 1 - Normal Working Mode, 2 - Solar Priority Mode, 3 - Battery - Inverter Mode, 4 - Energy								
			, , , , , , , , , , , , , , , , , , , ,	RS232/SNMP Optiona		,		
-	Communication Interface			110202/OTHINI OPTION	**			
				110202/ONWII Optionic				
	Communication Interface		5% to 9	95% Relative Humidity(Non				
	Communication Interface PERATING ENVIRONMENT		5% to 9	·				









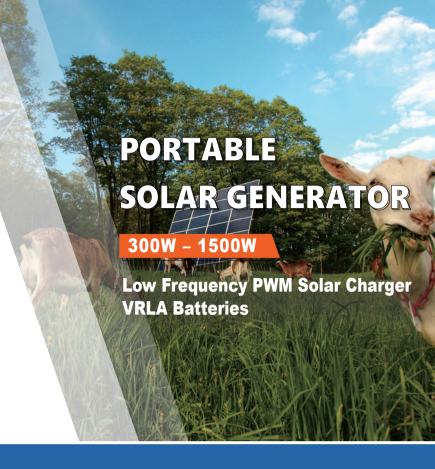


Over Discharg



Short-Circui





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- 8. Speaker
- 9. FM Radio





- 10. AC Output
- 11. RS232 Interface
- 12. Fan
- 13. AC Input
- 14. PV/DC Input
- 15. Master ON/OFF

Selection Guide (300W~1500W) VRLA PWM

		PI	P300 ~ PIP15	00			
	Model	PIP300	PIP500	PIP1000-12	PIP1000-24	PIP1500	
	PHASE			1-phase in/1-phase out			
RATED POWER		300W	500W	100	OW	1500W	
Dimension DxWxH (mm)			450	6x269x434		510x313x475	
	Net Weight (kgs)	19.01	21.30	46.72	50.32	75.58	
	INPUT		1				
	Voltage		110Vac/120Vac/	127Vac / 220Vac/230Vac/24	10Vac(+25%,-35%)		
	Frequency Range			50 Hz/60 Hz (Auto sensing	3)		
	OUTPUT						
	AC Voltage Regulation (Batt. Mode)		110Vac/120\	/ac/127Vac / 220Vac/230Va	c/240Vac ± 5%		
AC	Frequency			50Hz/60Hz ± 0.5Hz			
	Surge Power	900W	1500W	30	00W	4500W	
OUTPUT	Efficiency (Peak)		81%	(Battery Mode) / 93% (AC	Mode)		
	Transfer Time			<=8 ms			
	Crest Factor	3:1					
	Waveform			Pure sine wave			
	DC Voltage		12VDC		2	4VDC	
	DC Current	2A * 4 Ports / 30A Socket		2A * 4 Ports / 60A Socket			
DC	High-voltage Protection		16VDC		3	2VDC	
OUTPUT	High-voltage Recovery		15.2VDC		30	.4VDC	
	Low-voltage Protection		11VDC		2	2VDC	
	Low-voltage Recovery		12.6VDC		25	.2VDC	
	USB Interface	5VDC 3A * 8 Ports					
	LED LIGHTING						
Emergency	Power			3W			
Light	Input Voltage		12VDC		2	4VDC	
	Power			3W			
External	Input Voltage	12VDC 24VDC					
Light	Base	E27					
	Cable			303 ON/OFF Power Cord	I		
	FM RADIO						
	Audio Output			2 x 3W			
	FM Frequency			87.5 MHz to 108 MHz			
В	ATTERY & AC CHARGER						
	Battery Voltage		12VDC		2	4VDC	
	Battery Type		Va	lve-Regulated Lead-acid Ba	attery		
	Battery Capacity	1*12V 33AH	1*12V 55AH	1*12V100AH	2*12V55AH	4*12V55AH	
Floating Charge Voltage		13.7 VDC			27.4VDC		
Overcharge Protection		14.2VDC 38.4 VDC					
MPPT SC	LAR CHARGER & AC CHARGER						
	Solar Controller Type			PWM			
N	laximum PV Array Power	360W			720W		
PV Array Open Circuit Voltage Range		10 - 25VDC			20 - 50VDC		
Max.	PV Array Open Circuit Voltage	25VDC 50VDC					
N	lax. Solar Charge Current	30A					
	Max. AC Charge Current			0 - 20A (adjustable)			
	PROTECTION						
	Overload Protection	Full load 100%, Inverter	alarm. Overload 120%, Inv	verter shuts down output in 10s.On	ce the load back to normal,	Inverter recovers output.	
Output Short Circuit		Shut down automatically.					
High AC Input Voltage		Turn off AC,transfers to inverter mode automatically.					
Low Battery Voltage		Shut down automatically. Once the AC input recovers, inverter turns on and charge automatically.					
	Over Temperature			Shut down automatically.			
SYSTEM							
Dienlay	Display	LCD + LED					
Display	Display Contents	Input/Output Voltage, Input/Output Current, Battery Voltage, Battery Capacity, Loading Power, Working Modes					
	Working Modes	1 - Normal Working Mode, 2 - Solar Priority Mode, 3 - Battery - Inverter Mode, 4 - Energy Saving Mode					
	Communication Interface			RS232/SNMP Optional	<u> </u>		
OI	PERATING ENVIRONMENT						
	Humidity		5% to 9	95% Relative Humidity(Non-	condensing)		
	Altitude			<3000m			
	Operating Temperature			0°C to 55°C			

Powering the world





