

*brings warm & bright*

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**SUG**  
— New Energy —

## RV SYSTEM SPECIALIZED CATALOG



SUG NEW ENERGY CO., LTD.



**SVA** | DC-DC 20A Battery Charger  
12Vdc-12Vdc      CE RoHS FC

 **SVA** New Energy | 3000W POWER INVERTER  
PURE SINE WAVE      RoHS CE

## Catalog Overview

- P 02      Product Catalog
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- P 04      RV Power Solutions
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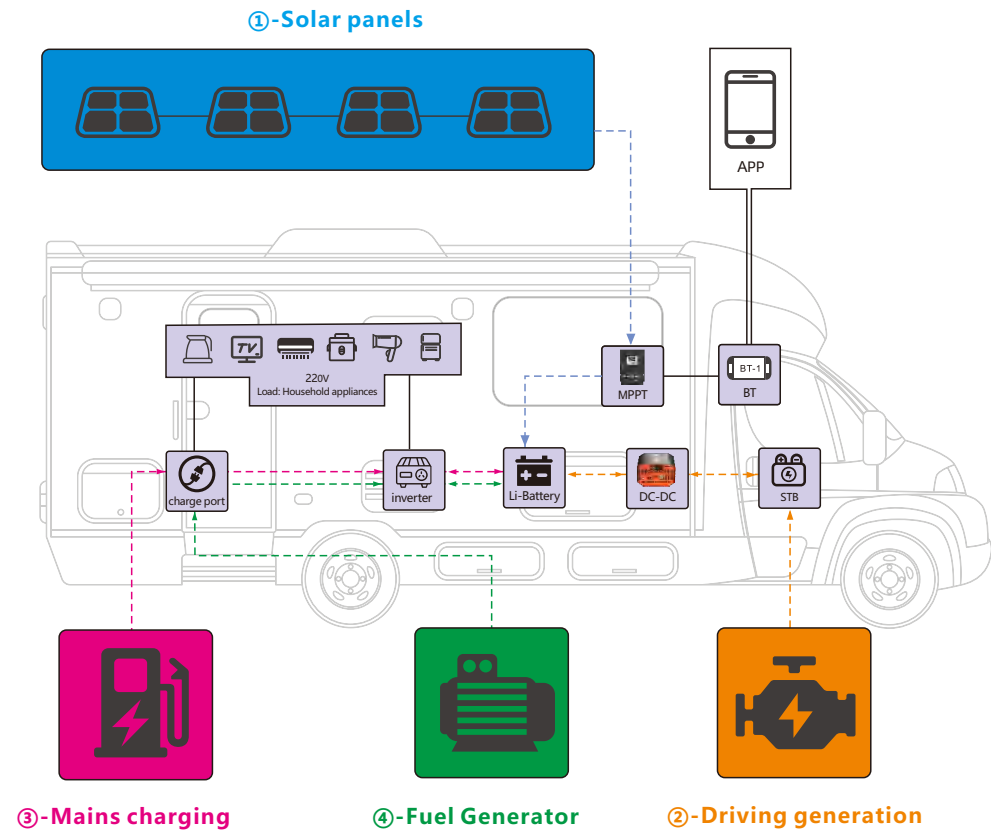


# COMPANY PROFILE

SUG New Energy Co.,Ltd was established in 2013 and has accumulated more than ten years of experience in the fields of solar energy and energy storage. We are a leading manufacturer that integrates research and development, design, and production of inverter power supplies, lithium batteries, and solar energy storage systems. We have two factories and multiple subsidiaries, mainly producing lithium batteries, inverters, energy storage systems, solar controllers, portable power station, and battery chargers. We have achieved a monthly production capacity of over 3000 lithium batteries and over 20000 inverters.

At present, the company has passed EU CE and ROHS certification, US ETL and FCC certification, Japan PSE certification, and more than 10 models of lithium batteries have obtained UN38.3 and MSDS certification. SUG is your trusted brand, and we hope to work together with you in 2025 to create a green future!

# RV Electricity Diagram



Solar Panel	Solar panels absorb sunlight through semiconductor materials and convert light energy directly into direct current to power batteries or electrical devices
MPPT	Charge solar power into "living batteries"
Inverter	Converts DC power into AC power for use by the load
DC-DC	Installed between the RV's starter battery and house battery, this charger enables the starter battery to recharge the house battery
Battery	Used to store electricity generated by various power generation methods
Mains charging	220V or 100-120V mains power, directly charge the battery, need to find a campsite or service area
Load	Various appliances used in Rvs

# SGPH 3000W Pure Sine Wave Inverter With Charger

3000W



Remote control



Supports lithium battery



Eight major protection functions



Pure sine wave output

## Product Introduction

The SGPH Pure Sine Wave Inverter with charging has complementary functions of mains charging and mains power, which can prioritize the power supply to the load and charge the battery. When the mains power is cut off, it will automatically switch to inverter power supply, ensuring uninterrupted power supply to the load. The output sine waveform quality is better than that of mains power; At the same time, the design of input and output circuits is completely isolated, ensuring the safety of system operation.

## Product features

- 1 Priority of mains power supply to load
- 2 Equipped with mains charging and UPS functions
- 3 LCD remote control panel optional
- 4 Support max charging current up to 120A
- 5 Pure sine wave inverter
- 6 Can support lithium battery activation

## Optional Accessories



Remote control panel



50/60Hz frequency switching switch



Rs485 communication



Wireless remote control



Bluetooth module

## Product parameters

Model	SGPH-3000
Rated power	3000W
Peak power	6000W
Input voltage	12VDC
Output voltage	110/220VAC±5%
Frequency	50Hz ± 3 or 60Hz ± 3
Output waveform	Pure sine wave
Soft start	yes
Charging current	100A/120A
Power supply priority	Priority for AC
Switching time	< 10 ms
DC input range	10V-15.5V
Input undervoltage alarm	10.5V±0.5V
Input undervoltage protection	10V±0.5V
Input undervoltage recovery	12V±0.5V
Input Overvoltage Protection	15.5V±0.5V
Input overvoltage recovery	15V±0.5V
Refrigeration method	Intelligent fan
Protection function	Undervoltage protection, overvoltage protection, overload protection, over temperature protection, short circuit protection, reverse connection protection (fuse)
Working temperature	-10°C-+50°C
Product size (cm)	40*25*11
Package size (cm)	54*37*20.5/ 1PCS
NW./PCS (kg)	8.9
GW. /Ctn (kg)	10.82
Packaging method	Carton box
Warranty	2Year

## SGPE Series Pure Sine Wave Inverter With E Display

### 300W-8000W



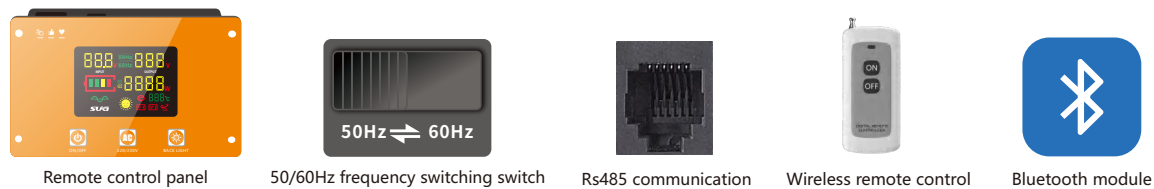
### Product Introduction

The SGPE series high-frequency pure sine wave inverter adopts intelligent color display design, visualizes operating data, uses imported chips and independently developed software, and outputs pure sine wave quality better than mains power. It can be used to run most electric tools and inductive loads; At the same time, the design of input and output circuits is completely isolated, ensuring the safety of system operation. The newly upgraded digital remote control and customized Bluetooth APP can perfectly match the outdoor RV application scenarios.

### Product features

- 1 Intelligent display/remote control panel display
- 2 Pure sine wave inverter
- 3 Customizable Bluetooth and wireless remote control functions
- 4 Customizable RS485 communication
- 5 Customized input voltage: 36/60/72/96/110VDC
- 6 Customizable for various types of sockets
- 7 Stable voltage output with almost no voltage drop at full load

### Optional Accessories



### Product Parameters

Model	SGPE-300	SGPE-500	SGPE-600	SGPE-1000	SGPE-1500	SGPE-2000	SGPE-2500
Rated power	300W	500W	600W	1000W	1500W	2000W	2500W
Peak power	600W	1000W	1200W	2000W	3000W	4000W	5000W
Input voltage	12/24/48VDC (customizable)						
Output voltage	100V/110V/220VAC $\pm$ 5%						
USB output	5V2A						
Type-C output	Optional(PD30W/PD60W )						
Frequency	50Hz $\pm$ 3 or 60Hz $\pm$ 3						
Output waveform	Pure sine wave						
Soft start	yes						
Total harmonic distortion THD	THD<3% (linear load)						
Efficiency	Maximum 94%						
DC input range	12V(10V-15.5V);24V(20V-31V);48V(40V-61V)						
Input undervoltage alarm	12V(10.5V $\pm$ 0.5V);24V(21V $\pm$ 0.5V);48V(42V $\pm$ 1V)						
Input undervoltage protection	12V(10V $\pm$ 0.5V);24V(20V $\pm$ 0.5V);48V(40V $\pm$ 1V)						
Input undervoltage recovery	12V(12V $\pm$ 0.5V);24V(24V $\pm$ 0.5V);48V(48V $\pm$ 1V)						
Input overvoltage protection	12V(15.5V $\pm$ 0.5V);24V(31V $\pm$ 0.5V);48V(60V $\pm$ 1V)						
Input overvoltage recovery	12V(15V $\pm$ 0.5V);24V(20V $\pm$ 0.5V);48V(59V $\pm$ 1V)						
Refrigeration method	Intelligent fan						
Protection function	Undervoltage protection, overvoltage protection, overload protection, over temperature protection, short circuit protection, reverse connection protection (fuse)						
Working temperature	-10°C - +50°C						
Product size (cm)	18.8*10.2*6	21*11 3*5.5	20.5*15*7.8	29.8*17*10.2	29.8*17*10.2	38.1*17*10.5	42.3*17*10.5
Package size (cm)	54.5*49*32.5/18PCS	65.5*43.5*31.3/16PCS	76*45*28/10PCS	53.5*47*40.7/6PCS	53.5*47*40.7/6PCS	47.5*47*36.5/4PCS	47.5*47*36.5/4PCS
NW./PCS (kg)	0.9	1.25	1.7	2.74	2.8	4.02	4.76
GW. /Ctn (kg)	23	22.5	22.34	20.52	21	21.7	22.52
Packaging method	Carton						
Warranty	18 months						



Product Parameters

Model	SGPE-3000	SGPE-3500	SGPE-4000	SGPE-5000	SGPE-6000	SGPE-8000
Rated power	3000W	3500W	4000W	5000W	6000W	8000W
Peak power	6000W	7000W	8000W	10000W	12000W	16000W
Input voltage	12/24/48VDC (customizable)			24/48VDC (customizable)		
Output voltage	100V/110V/220VAC±5%					220VAC±5%
USB output	5V2A					
Type-C output	Optional(PD30W/PD60W )					
Frequency	50Hz ± 3 or 60Hz ± 3					
Output waveform	Pure sine wave					
Soft start	Yes					
Total harmonic distortion THD	THD <3% (linear load)					
Efficiency	Maximum 94%					
DC input range	12V(10V-15.5V);24V(20V-31V);48V(40V-61V)					
Input undervoltage alarm	12V(10.5V±0.5V);24V(21V±0.5V);48V(42V±1V)					
Input undervoltage protection	12V(10V±0.5V);24V(20V±0.5V);48V(40V±1V)					
Input undervoltage recovery	12V(12V±0.5V);24V(24V±0.5V);48V(48V±1V)					
Input overvoltage protection	12V(15.5V±0.5V);24V(31V±0.5V);48V(60V±1V)					
Input overvoltage recovery	12V(15V±0.5V);24V(20V±0.5V);48V(59V±1V)					
Refrigeration method	Intelligent fan					
Protection function	Undervoltage protection, overvoltage protection, overload protection, over temperature protection, short circuit protection, reverse connection protection (fuse)					
Working temperature	-10°C - +50°C					
Product size (cm)	50.5*19.9*8.4	48*19.9*8.4	51*20*15	51*20*15	61*20*15	61*20*15
Package size (cm)	60*27*31.5/ 2PCS	56.5*30.8*24/ 1PCS	65*32.5*25/ 1PCS	65*32.5*25/ 1PCS	74*32*25/ 1PCS	74*32*25/ 1PCS
NW./PCS (kg)	6.35	8.92	9.04	10.12	12.25	13.14
GW. /Ctn (kg)	15.45	10.7	10.84	13.25	14	14.96
Packaging method	Carton	Honeycomb box				
Warranty	18 months					



# SGPC Series Pure Sine Wave Inverter With Charger

500W-5000W



Remote control



Supports lithium battery



Eight major protection functions



Pure sine wave output

## Product Introduction

The SGPC Series Pure Sine Wave Inverter with charging has complementary functions of mains charging and mains power, which can prioritize the power supply to the load and charge the battery. When the mains power is cut off, it will automatically switch to inverter power supply, ensuring uninterrupted power supply to the load. The output sine waveform quality is better than that of mains power; At the same time, the design of input and output circuits is completely isolated, ensuring the safety of system operation.

## Product features

- 1 Priority of mains power supply to load
- 2 Equipped with mains charging and UPS functions
- 3 LCD remote control panel optional
- 4 Customizable for various types of sockets
- 5 Pure sine wave inverter
- 6 Can support lithium battery activation

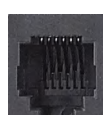
## Optional Accessories



Remote control panel



50/60Hz frequency switching switch



Rs485 communication



Wireless remote control



Bluetooth module

## Product parameters

Model	SGPC-500	SGPC-1000	SGPC-1500	SGPC-2000	SGPC-2500	SGPC-3000	SGPC-4000	SGPC-5000
Rated power	500W	1000W	1500W	2000W	2500W	3000W	4000W	5000W
Peak power	1000W	2000W	3000W	4000W	5000W	6000W	8000W	10000W
Input voltage	12/24/48VDC							
Output voltage	110/220VAC±5%							
USB port	5V2A							
Frequency	50Hz ± 3 or 60Hz ± 3							
Output waveform	Pure sine wave							
Soft start	yes							
Charging current	12V/10A or 24V/5A		12/20A or 24V/10A				24V/20A or 48V/10A	
Power supply priority	Priority for AC							
Switching time	<10 ms							
DC input range	12V(10V-15.5V);24V(20V-31V);48V(40V-61V)							
Input undervoltage alarm	12V(10.5V±0.5V);24V(21V±0.5V);48V(42V±1V)							
Input undervoltage protection	12V(10V±0.5V);24V(20V±0.5V);48V(40V±1V)							
Input undervoltage recovery	12V(12V±0.5V);24V(24V±0.5V);48V(48V±1V)							
Input Overvoltage Protection	12V(15.5V±0.5V);24V(31V±0.5V);48V(60V±1V)							
Input overvoltage recovery	12V(15V±0.5V);24V(20V±0.5V);48V(59V±1V)							
Refrigeration method	Intelligent fan							
Protection function	Undervoltage protection, overvoltage protection, overload protection, over temperature protection, short circuit protection, reverse connection protection (fuse)							
Working temperature	-10°C - +50°C							
Product size (cm)	29.8*17*10.2	37.5*17*10.2	37.5*17*10.2	43*17*10.2	49.3*16.9*10.2	51*19.8*14.5	61*19.8*14.5	61*19.8*14.5
Package size (cm)	53.5*47*40*7/6pcs	47.5*47*36.5/4PCS	47.5*47*36.5/4PCS	53*47*36.5/4PCS	60.3*47*36.5/4PCS	65*32.5*25/1PCS	74*32*25/1PCS	74*32*25/1PCS
NW./PCS (kg)	2.7	3.5	3.7	5.25	5.6	8.9	11.14	13.56
GW. /Ctn (kg)	22	18	20	24.2	27.6	10.82	13.48	16.18
Packaging method	Carton					Honeycomb box		
Warranty	1Year							



# SGPF Pure Sine Wave Inverter

1000W-3000W



Compact in size



Eight major protection functions



Pure sine wave output

## Product Introduction

The SGPF series high-frequency pure sine wave inverter adopts independently developed software, which outputs pure sine waveform with better quality than mains power and can be used to operate most electric tools and inductive loads; At the same time, the design of input and output circuits is completely isolated, ensuring the safety of system operation.

## Product features

- ① Input and output are completely isolated
- ② Stable operation at full power load
- ③ Soft start function
- ④ Pure sine wave inverter
- ⑤ Small size, easy to carry and install
- ⑥ Eight major protection functions

## Application Area

- ※ Energy storage system, control system, alarm system, power system, database
- ※ Emergency lighting system, emergency power supply, UPS
- ※ Telecommunications, communication, and fire protection

## Product parameters

Model	SGPF-1000	SGPF-1500	SGPF-2000	SGPF-3000
Rated power	1000W	1500W	2000W	3000W
Peak power	2000W	3000W	4000W	6000W
Input voltage	12/24/48VDC			
Output voltage	110/220VAC±5%			
USB port	5V2A			
Frequency	50Hz ± 3 or 60Hz ± 3			
Output waveform	Pure sine wave			
Soft start	yes			
Efficiency	Maximum 94%			
DC input range	12V(10V-15.5V); 24V(20V-31V); 48V(40V-61V)			
Input undervoltage alarm	12V(10.5V±0.5V); 24V(21V±0.5V); 48V(42V±1V)			
Input undervoltage protection	12V(10V±0.5V); 24V(20V±0.5V); 48V(40V±1V)			
Input undervoltage recovery	12V(13V±0.5V); 24V(24V±0.5V); 48V(48V±1V)			
Input Overvoltage Protection	12V(16V±0.5V); 24V(31V±0.5V); 48V(61V±1V)			
Input overvoltage recovery	12V(14.8V±0.5V); 24V(29V±0.5V); 48V(59V±1V)			
Refrigeration method	Intelligent fan			
Protection function	Undervoltage protection, overvoltage protection, overload protection, over temperature protection, short circuit protection, reverse connection protection (fuse)			
Working temperature	-10°C-+50°C			
Product size (cm)	28.2*14.4*7.3	31.2*14.4*7.3	33.7*16.3*8.1	37.7*16.3*8.1
Package size (cm)	55*41.5*38/8PCS	41.5*41.5*41.3/6PCS	45.5*30*45.5/4PCS	50*44.5*23/3PCS
NW./PCS (kg)	2	2.4	3.2	4.25
GW. /Ctn (kg)	18.9	17.4	16.6	15.91
Packaging method	Carton			
Warranty	1Year			



## SGM Modified Sine Wave Inverter

300W-3000W



Small volume/  
light weight



Eight major  
protection functions



Modified sine  
wave output

### Product Introduction

The SGM series modified wave inverter uses PWM pulse width modulation to generate correction wave output. During the inversion process, due to the use of dedicated intelligent circuits and high-power field-effect transistors, the power loss of the system is greatly reduced. And added a soft start function, effectively ensuring the reliability of the inverter.

### Product features

- ① Soft start
- ② Input and output are completely isolated
- ③ Modified sine wave inverter
- ④ Stable operation at full power load
- ⑤ Eight major protection functions
- ⑥ Small size, easy to carry and install

### Application Area

- ※ Energy storage system, control system, alarm system, power system, database
- ※ Emergency lighting system, emergency power supply, UPS
- ※ Telecommunications, communication, and fire protection

### Product parameters

Model	SGM-300	SGM-500	SGM-600	SGM-1000	SGM-1200W	SGM-1500	SGM-2000	SGM-2500	SGM-3000
Rated power	300W	500W	600W	1000W	1200W	1500W	2000W	2500W	3000W
Peak power	600W	1000W	1200W	2000W	2400W	3000W	4000W	5000W	6000W
Input voltage	12/24/48VDC								
Output voltage	110/220VAC±5%								
USB port	5V2A								
Frequency	50Hz ± 3 or 60Hz ± 3								
Output waveform	Modified sine wave								
Soft start	yes								
Total harmonic distortion THD	THD<3% (linear load)								
Efficiency	Maximum 92%								
DC input range	12V(10V-15.5V);24V(20V-31V);48V(40V-61V)								
Input undervoltage alarm	12V(10.5V±0.5V);24V(21V±0.5V);48V(42V±1V)								
Input undervoltage protection	12V(10V±0.5V);24V(20V±0.5V);48V(40V±1V)								
Input undervoltage recovery	12V(12V±0.5V);24V(24V±0.5V);48V(48V±1V)								
Input overvoltage protection	12V(16V±0.5V);24V(31V±0.5V);48V(63V±1V)								
Input overvoltage recovery	12V(15.59V±0.5V);24V(29V±0.5V);48V(60V±1V)								
Refrigeration method	Intelligent fan								
Protection function	Undervoltage protection, overvoltage protection, overload protection, over temperature protection, short circuit protection, reverse connection protection (fuse)								
Working temperature	-10°C- +50°C								
Product size (cm)	15.5*11.2*5.8	16*11.2*5.8	15.5*11.2*5.8	24.5*15*7.7	24.5*15*7.7	28.5*15*7.7	32*16.7*9.2	32*16.7*9.2	39*16.7*9.2
Package size (cm)	47.5*29.5*32.5/20PCS	47.5*29.5*32.5/20PCS	54.5*33.5*31/20PCS	51*32.5*41/8PCS	54*34*42/8PCS	51.5*36.8*40.7/8PCS	47*40*46.5/6PCS	49*41*49/6PCS	46.7*46.5*31.7/4PCS
NW./PCS (kg)	0.84	0.95	0.95	1.85	1.95	2.45	3.783	3.65	4.75
GW./Ctn (kg)	17.8	20	25.9	15.8	18.7	20.6	23.7	28.4	20
Packaging method	Carton								
Warranty	1Year								

## SDC DC to DC Dual Battery Charger

20A/30A/40A/60A



Intelligent protection



Compatible with many battery type



Two/Three stage charge charging



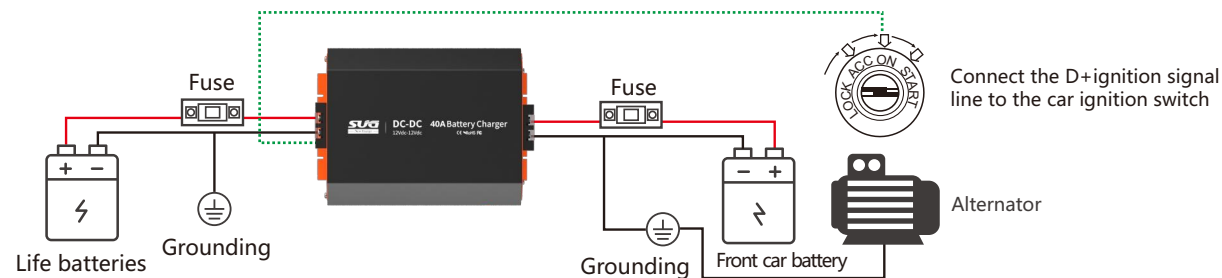
### Product Introduction

SDC DC-DC charger, capable of maintaining auxiliary battery system charging throughout the journey. DC-DC battery charger is designed specifically for dual battery systems, ensuring reliable performance. The auxiliary battery system operates at peak efficiency for a longer period of time when disconnected from the power grid. When the engine is running, the DC-DC charger will safely charge the auxiliary battery pack. Supplements for RVs, ships, or any other off grid vehicles.

### Product features

- 1 Multi-chemistry battery types ( flooded, gel, AGM, and lithium)
- 2 3-stage charging (bulk, absorption , and float)
- 3 Smart protection features ( battery isolation, over-voltage safety, overheat protection, and short circuit protection)
- 4 Overcomes voltage drop caused by long cable runs
- 5 Able to charge an auxiliary battery to 100% state of charge
- 6 Increases run time of loads, such as fridges and lights
- 7 Prolongs battery life

### Product Connection Diagram



## Product Parameters

Model	SDC-20A	SDC-30A	SDC-40A	SDC-60A
Nominal input Voltage	12V			
Input voltage range	8V~16V			
Charging current	20A	30A	40A	60A
Charging voltage	13.2V~14. 7V			
Output	250W	360W	500W	750W
Efficiency up to	> 0.9			
Idle power Consumption	<0.4A			
Ambient humidity	≤95%Non-Condensing			
Residual ripple of Output voltage at Rated current	< 50 mVeff			
Ambient temperature For operation	-20°C~50°C			
Net dimension(LxWxH)	170*146*83mm	170*146*83mm	205*146*83mm	242*146*83mm
Outer box size(LxWxH)	220*210*155mm	220*210*155mm	250*210*155mm	293*210*155mm
NW. (kg)	1.19	1.19	1.55	1.87
GW.(kg)	1.5	1.5	1.81	2.15
Certification	CE FCC ROHS			
Protective function Specifications				
Protections	High-voltage,low-voltage,high-temperature,short-circuit			
Low voltage cut of	8V			
low voltage restart	10V			
High-voltage shutdown	16V			
High voltage restart	15.5V			



# SMDC DC to DC Battery Charger With Mppt

30A/60A



Intelligent protection



Compatible with many battery type



Two/Three stage charge charging



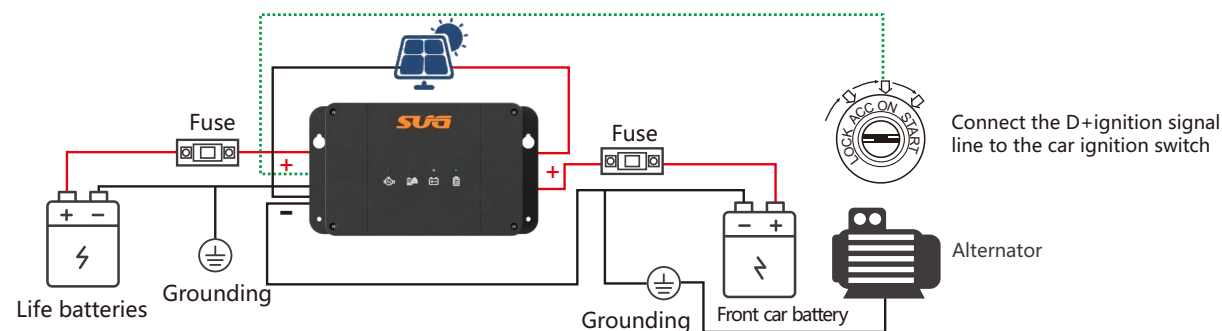
## Product Introduction

SMDC 30A/60A DC-to-Dc MPPT On-Board Battery Charger can charge a service battery in two different ways, The multi-stage charger can utilize connected solar panels or an alternator linked to a starting battery. While your vehicle's alternator prioritizes your starting battery, this unit will allow your solar system to charge your service battery first! it's the smart way to keep yourself fully charged and off-grid longer! with multi-stage charging and multi-chemistry functionality, DC-to-DC MPPT charger covered Flooded, Gel, AGM, and Lithium batteries.

## Product features

- 1 Multi-chemistry battery types ( flooded, gel, AGM, and lithium)
- 2 3-stage charging (bulk, absorption , and float)
- 3 Smart protection features ( battery isolation, over-voltage safety, overheat protection, and short circuit protection)
- 4 Overcomes voltage drop caused by long cable runs
- 5 Able to charge an auxiliary battery to 100% state of charge
- 6 Increases run time of loads, such as fridges and lights
- 7 Prolongs battery life

## Product Connection Diagram



## Product Parameters

Model	SMDC-30A	SMDC-60A
System Voltage	12Vdc	
Battery Voltage Range	9V to 16V DC	
Maximum Charging Current	30A	60A
Battery Type	SLA, Gel, FLD, Li, User-defined	
Auxiliary Battery Charging Mode	MPPT	
Charging Efficiency	Up to 97%	
Max. Solar Input Voltage	30V	60V
Max. Solar Input Power	400W	720W
Alternator Input Voltage	Traditional Alternator: 13.2V to 16V DC Smart Alternator (Euro 6): 12V to 16V DC	
Max.Alternator Input Power	400W	720W
Temp.Compensation Coefficient	-3mV/°C/2V	
Self-consumption	< 30mA	
Operating Temperature Range	-31°F to 149°F/-35°C to 65°C	
Storage Temperature Range	-40°Fto 176°F/-40°C to 80°C	
Humidity Range	0% to 95%(NC)	
Dimensions	244*146*77mm	244*146*96mm
Weight	1.41 kg	1.86 kg
Terminal Size	M8*1.25-14 mm	
Communication Protocol	Rs485/CAN optional	
Grounding	Common Negative	
Certifications	CE; ROHS; FCC Part 15 Class B	

## SDC DC to DC Dual Battery Charger

1212-120A/1224-60A  
1224-12-120A/1224-24-60A



Intelligent protection



Compatible with many battery type



Two/Three stage charge charging



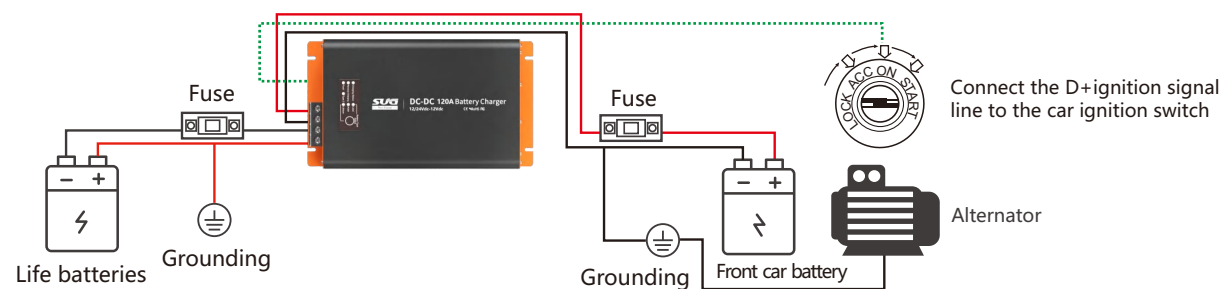
### Product Introduction

SDC DC-DC charger, capable of maintaining auxiliary battery system charging throughout the journey. DC-DC battery charger is designed specifically for dual battery systems, ensuring reliable performance. The auxiliary battery system operates at peak efficiency for a longer period of time when disconnected from the power grid. When the engine is running, the DC-DC charger will safely charge the auxiliary battery pack. Supplements for RVs, ships, or any other off grid vehicles.

### Product features

- 1 Multi-chemistry battery types ( flooded, gel, AGM, and lithium)
- 2 3-stage charging (bulk, absorption , and float)
- 3 Smart protection features ( battery isolation, over-voltage safety, overheat protection, and short circuit protection)
- 4 Overcomes voltage drop caused by long cable runs
- 5 Able to charge an auxiliary battery to 100% state of charge
- 6 Increases run time of loads, such as fridges and lights
- 7 Prolongs battery life

### Product Connection Diagram



## Product Parameters

Model	SDC1212-120A		SDC1224-60A		SDC-1224-12-120A		SDC-1224-24-60A	
Nominal input Voltage	12V		12V		12V/24V		12V/24V	
Input voltage range	8V~16V				8V~16V/16V~32V			
Charging current	120A		60A		120A		60A	
Charging voltage	13.2V~14. 7V		26.4V~29.4V		13.2V~14. 7V		26.4V~29.4V	
Output	1540W		1540W		1540W		1540W	
Efficiency up to	> 0.9							
Idle power Consumption	<0.4A							
Ambient humidity	≤95%Non-Condensing							
Residual ripple of Output voltage at Rated current	< 50 mVeff							
Ambient temperature For operation	-20°C~50°C							
Net dimension(LxWxH)	270*130*73mm							
Outer box size(LxWxH)	273*133*76mm							
NW. (kg)	1.8							
GW.(kg)	2.3							
Certifcation	CE FCC ROHS							
Protective function Specifcations								
Protections	High-voltage,low-voltage,high-temperature,short-circuit							
Low voltage cut of	8V				8V/16V			
low voltage restart	10V				10V/20V			
High-voltage shutdown	16V				16V/32V			
High voltage restart	15.5V				15.5V/31V			



## SBC AC to DC RV Converter

35A-125A



Intelligent protection



Compatible with many battery type



Two/Three stage charge charging



### Product Introduction

The SBC-RV power converter is an efficient and intelligent multifunctional power management device designed specifically for RVs and campers. It can convert externally connected alternating current (AC) to direct current (DC) to power onboard devices, while intelligently charging and managing RV batteries.

### Product features

- 1 Multi-chemistry battery types ( flooded, gel, AGM, and lithium)
- 2 Smart protection features ( battery Isolation, over-voltage safety, overheat protection, and short circuit protection)
- 3 Overcomes voltage drop caused by long cable runs
- 4 Able to charge an auxiliary battery to 100% state of charge
- 5 Increases run time of loads, such as fridges and lights
- 6 Prolongs battery life

### Product Parameters

Model	SBC-35A	SBC-45A	SBC-55A	SBC-65A	SBC-80A	SBC-100A	SBC-125A
DC Output							
Output Current	Max. 35A	Max. 45A	Max. 55A	Max. 65A	Max. 80A	Max. 100A	Max. 125A
Charging Voltage	14.6Vdc						
Chargin Way	3 steps for lead acid mode / 2 steps for lithium mode						
Fix Output Voltage	13V/14.6V/16.5Vdc adjustable						
Max DC Output Power	510W	655W	798W	942.5W	1160W	1450W	1812.5W
AC Input							
Rated Input Voltage	120Vac						
Input Voltage Range	90-120Vac						
Input Frequency	60Hz(47Hz-63Hz)						
Environment							
Working Temperature& Humidity	-10~60°C;20%-90%RH						
Storage Temperature& Humidity	-20~+85°C;10%~95%RH						
Fan Cooling	Cooling fan starts when temperature>45°C,system stops working when temperature>95°C(+10%)						
LED							
Red Colour	Battery charging / runs loads in Fix-voltage mode						
Green Colour	Battery fully charged / no load in Fix-voltage mode						
Basic parameters							
Product size (mm)	265*182*93	265*182*93	265*182*93	274*207*94	274*207*94	274*207*94	274*207*94
Package size (mm)	320*227*160	320*227*160	320*227*160	320*260*160	320*260*160	320*260*160	320*260*160
NW./PCS (kg)	2.1	2.2	2.3	2.7	2.7	3.3	3.3
GW. /Ctn (kg)	2.4	2.5	2.6	3	3	3.6	3.7

# SSM-MPPT Solar Charge Controller

12V/24V: 20A - 40A

12V/24V/36V/48V: 30A - 160A



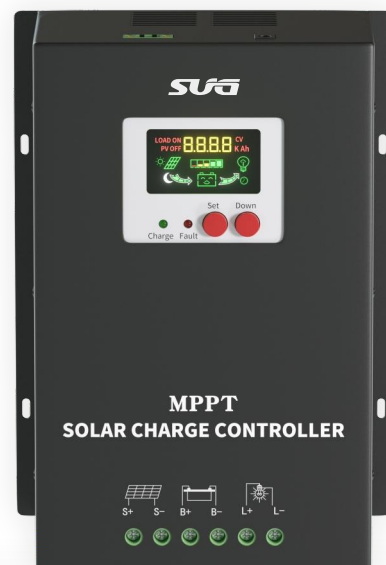
Automatic voltage recognition



LCD display



MPPT tracking charging



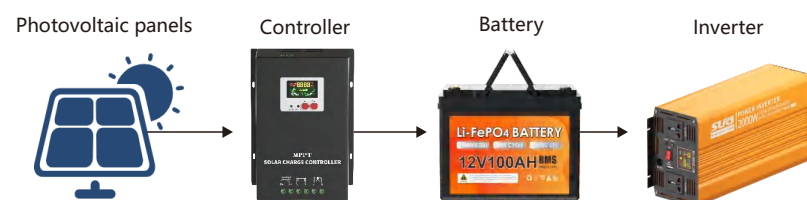
## Product Introduction

The SSM controller is suitable for automatic control of charging and discharging processes in solar off grid systems (independent systems). The charging mode of the controller is divided into MPPT and DC-DC, and the discharge process of the battery is optimized to extend the battery's life and improve system performance. Its comprehensive electronic protection function can prevent users from damaging the controller due to installation errors and system failures.

## Product features

- 1 Automatic voltage recognition
- 2 Lightning protection
- 3 Adopting large screen LCD display
- 4 Over charge, over discharge, overload, short circuit, and battery anti reverse protection
- 5 Adopting MPPT tracking mode to effectively improve charging efficiency

## Product Connection Diagram



## Product parameters

Model	SSM-20A	SSM-30A	SSM-40A	SSM-30A	SSM-40A
Maximum open circuit voltage of the battery board	<100V			<180V	
MPPT voltage range	13V-100V(12V);26V-100V(24V)			13V-120V(12V); 26V-140V(24V); 52V-160V(48V)	
Maximum input current	20A	30A	40A	30A	40A
Maximum output current	20A	30A	30A	30A	30A
maximum input power of solar energy is 12V	240W	360W	480W	360W	480W
maximum input power of solar energy is 24V	480W	720W	960W	720W	960W
maximum input power of solar energy is 48V	/	/	/	1440W	1920W
Adjustable battery type	Supports lead-acid, colloid, open end, and lithium batteries (with self set voltage)				
Charging mode	MPPT or DC/DC (adjustable)				
Maximum charging efficiency	MPPT mode: 96%				
Product size/ unit (mm)	186*148*64.5			172.8*249.7*111.1	
NW./unit (kg)	1.8			3.5	
Working temperature	-25°C~ +60°C				
Remote monitoring function	Rs485 optional				

Model	SSM-50A	SSM-60A	SSM-80A	SSM-100A	SSM-120A	SSM-160A
Maximum open circuit voltage of the battery board	<180V			<230V		
MPPT voltage range	13V-120V(12V); 26V-140V(24V); 52V-160V(48V)			80V-180V(12V/24V/36V);100V-230V(48V)		
Maximum input current	50A	60A	80A	100A	120A	160A
Maximum output current	30A	60A	60A	40A	40A	40A
maximum input power of solar energy is 12V	600W	720W	960W	1200W	1440W	1920W
maximum input power of solar energy is 24V	1200W	1440W	1920W	2400W	2880W	3840W
maximum input power of solar energy is 36V	/	/	/	3600W	4320W	5760W
maximum input power of solar energy is 48V	2400W	2880W	3840W	4800W	5760W	7680W
Adjustable battery type	Supports lead-acid, colloid, open end, and lithium batteries (with self set voltage)					
Charging mode	MPPT					
Maximum charging efficiency	MPPT mode: 96%					
Product size/unit (mm)	172.8*249.7*111.1	342.8*190 * 117		310*327*135	499*399*178	
NW./unit (kg)	1.8	5		6.5	10.7	
Working temperature	-25℃~-60℃					
Remote monitoring function	Rs485 optional					



## SBT Plastic LFP Energy Storage Battery

12.8V/25.6V

100Ah/150Ah/200Ah/300Ah/400Ah



BMS protection



Small volume/  
light weight



Home  
energy storage



Intelligent  
communication/  
Optional



### Product Introduction

SBT Plastic LFP Energy Storage Battery use long working life LiFePO4 battery, and high performance BMS to protect and manage the battery system, it has wider usage and longer life than traditional battery.

### Product features

- ① LiFePO4 cell class A
- ② 50A/100A/150A/200A BMS for charge/discharge
- ③ 6000 cycle times@DoD80%
- ④ IP67 design
- ⑤ BT is optional
- ⑥ With series/parallel function
- ⑦ LCD display is optional

### Application Area

- ✧ Energy storage system, control system, alarm system, power system, database
- ✧ Emergency lighting system, emergency power supply, UPS
- ✧ Telecommunications, communication, and fire protection

### Product Parameters

Model	SBT-12.8100	SBT-12.8150	SBT-12.8200	SBT-12.8300	SBT-12.8400	SBT-25.6100	SBT-25.6200
Standard voltage	12.8V	12.8V	12.8V	12.8V	12.8V	25.6V	25.6V
Standard capacity	100Ah	150Ah	200Ah	300Ah	400Ah	100Ah	200Ah
Standard energy	1.28kWh	1.92kWh	2.56kWh	3.84kWh	5.12kWh	2.56kWh	5.12kWh
Working voltage	10-14.6V	10-14.6V	10-14.6V	10-14.6V	10-14.6V	20-29.2V	20-29.2V
Standard charging current	50A	50A	50A	100A	100A	50A	50A
Standard discharging current	100A	100A	100A	200A	200A	100A	100A
Suggested DOD	80%						
Cycle life	>6000 cycles						
IP Rating	Ip67						
Operating temperature for discharge	-20°C-60°C						
Operating temperature for charge	0°C-45°C						
Communication	BT optional						
Display	LCD display optional						
Warranty	5 years						
Certificate	UN38.3/MSDS/CE/ROHS/FCC						
NW. (kg)	10.3	15	20.1	30	38	20.6	38
GW.(kg)	15.3	20	25.1	35	43	25.6	43
Product size (mm)	330*172*216	330*172*216	345*190*245	520*267*220	520*267*220	345*190*245	520*267*220
Package size(mm)	372*217*269	372*217*269	397*232*293	567*309*272	567*309*272	397*232*293	567*309*272