



- Powering the world future -

## KSTAR ENERGY STORAGE SOLUTIONS OFF GRID INVERTERS

**KSTAR**

— Stock code: 002518 —

### CONTACT

Tel: +86-755-86169858  
Fax: +86-755-86168482  
Website: [www.kstarpower.com](http://www.kstarpower.com)  
E-mail: [sales@kstarpower.com](mailto:sales@kstarpower.com)

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Version number: KSD/L 2022-07

### HEADQUARTERS

Add: 4/F, No.1 Bldg. Software Park, Keji C. Rd. 2nd, Hi-Tech Industrial Zone,  
Shenzhen 518057, P.R.China

### FACTORIES ADDRESS

Kstar Industrial Park, Guangming Hi-Tech Industrial Zone, Shenzhen, P.R.China.  
Kstar Industrial Park, Fumin Industrial Zone, Guanlan Town, Shenzhen, P.R.China.  
Kstar Industrial Park, Zhongkai Hi-Tech Industrial Zone, Huizhou, P.R. China.

Founded in 1993, Shenzhen KSTAR Science & Technology Co., Ltd (Stock Code: 002518) is a National Torch Plan Key High-tech Enterprise, and also a pioneer of UPS industrial and a total solution provider for Data Center Critical Infrastructure & Photovoltaic Inverter Systems in Mainland China. KSTAR is fully committed to the R&D and has been providing high-quality products with full service to over 90 countries and regions worldwide, leading the industrial development with innovation.



ISO9001



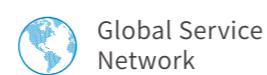
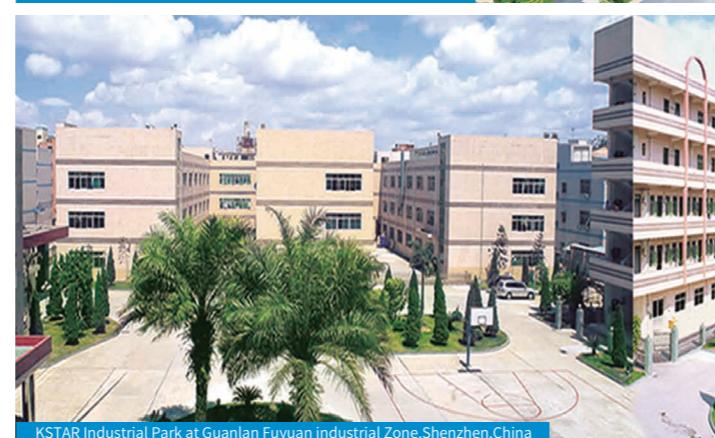
ISO14001



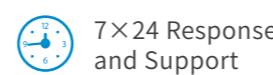
OHSAS18001



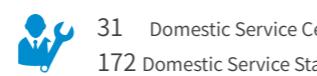
IECQ QC080000



Global Service Network



7×24 Response and Support



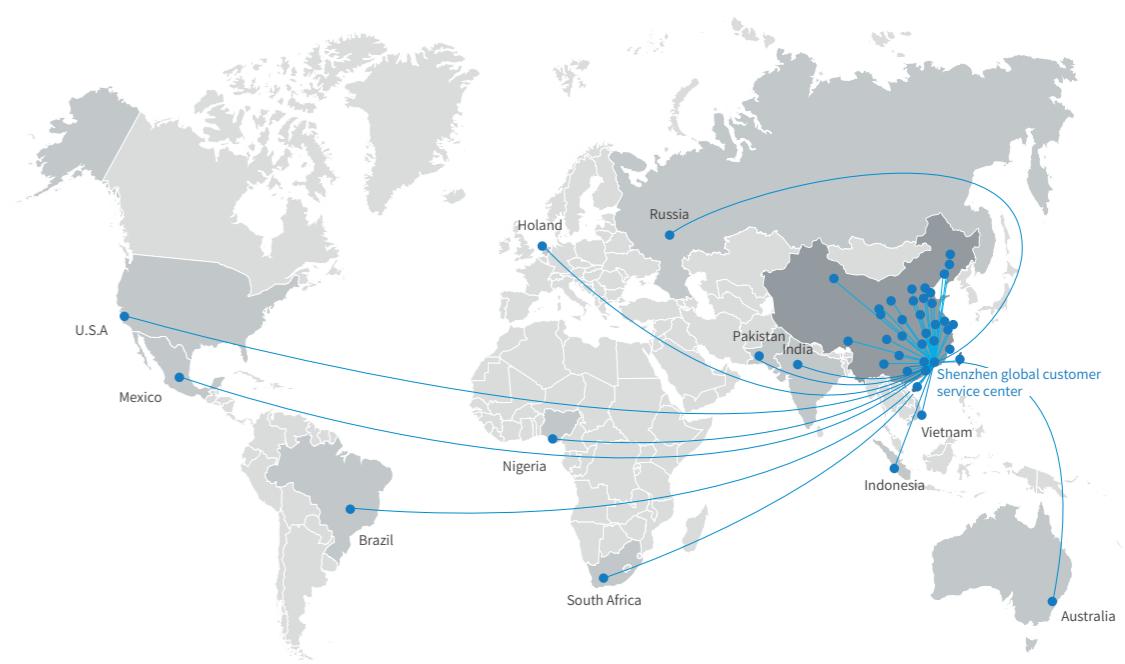
31 Domestic Service Centers  
172 Domestic Service Stations



National Customer Service Hotline:  
400-700-9662



12 Overseas Technical Service Centers  
40 Overseas Service Engineers



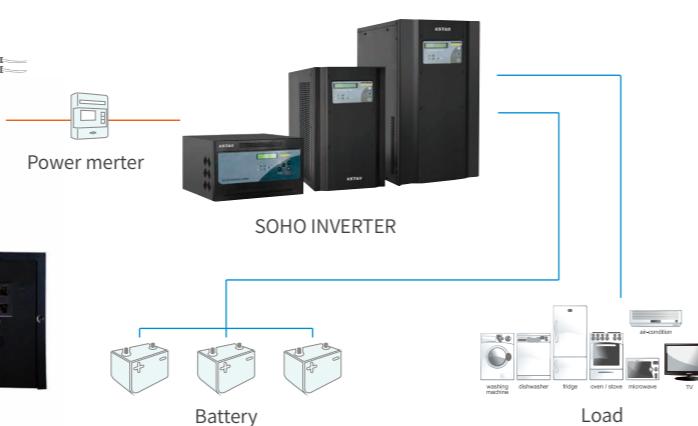
600VA~6kVA



## Features:

- |   |  |
|---|--|
| · Wide input voltage range                                  | · Cold start                               |
| · Fully DSP control   | · Comprehensive and reliable protection    |
| · UPS mode and inverter mode suit for different application | · High performance of battery optimization |
| · LED indicates the status                                  | · Sound & Light alarm function             |
| · Auto-restart function when power back on line             | · Compatible with generator                |

## Rear Panel:



## Technical Specifications

MODEL	SH-600	SH-800	SH-1000	SH-1500	SH-2000	SH-3000	SH-4000	SH-5000	SH-6000	SH-7500	SH-10000
Capacity (VA/W)	600VA/480W	800VA/640W	1000VA/800W	1500VA/1200W	2000VA/1600W	3000VA/2400W	4000VA/3200W	5000VA/4000W	6000VA/4800W	7500VA/6000W	10000VA/8000W
<b>LINE MODE</b>											
<b>INPUT</b>											
Nominal voltage										220Vac(L+N+PE)	
Nominal frequency										50Hz	
Operating voltage range				INV: 120~300Vac	UPS: 145~285Vac					INV: 160~265Vac	UPS: 190~260Vac
Operating Frequency range											187~253Vac
<b>OUTPUT</b>										38~70Hz	
Output voltage							INV: 205~245Vac	UPS: 170~255Vac			INV: 160~265Vac
Power factor										0.8	
Harmonic distortion(THDV)										≤3%	
Frequency range										Same as Mains	
Waveform										Tracking mains	
Efficiency								≥94% (full load)			≥97% (full load)
Transfer Time										10ms Max(5ms typical)	
Overload capacity										≤120%: 3min; ≤130%: 30s; >130%: shutdown immediately	
Scoket										IEC/Schuko	Terminal
<b>Battery Mode</b>											
Battery Voltage	12Vdc	24Vdc	24/48Vdc	48Vdc	120Vdc	192Vdc					
Output Voltage			220Vac±5%				220/230Vac±1%				
Frequency Range			50±1Hz				50/60±0.5Hz				
Waveform(Mains.mode)				Pure sinewave							
Efficiency			≥82% (full load)				≥85% (full load)			≥89% (full load)	
Overload capacity				≤110%: 10s; >110%: shutdown immediately							
<b>AC CHARGER</b>											
Charging Algoritm							'3-Step charing				
Maximum Charging Current	10/20A selectable		10/20/30A selectable	10/20/30/40/50A selectable			12A				
Constant current charging voltage							14.1±0.3V/cell				
Floating Charging Voltage							13.8±0.3V/cell				
<b>PROECTION</b>											
Full Protection							Overload,over-temperature,short-circuit protectio,over-voltage,abnormal output voltage				
<b>ALARM</b>											
Battery Mode							Beep 1 time/10s,mute after 3min				Beep once
Battery Low							Beep 2 times/1s				Beep 2 times/1s
Overload							Beep 1 time/2s,4 times in row				Continuously beeping
Fault							Continuously beeping				Continuously beeping
<b>PHYSICAL</b>											
Dimension W x D x H (mm)	272x285x165	313x295x189	352x220x358	452x260x418	313x633x788						
Net weight (kg)	12	14	15	19	26	28	38	48	51	60	85
<b>OPERATING ENVIRONMENT</b>											
Humidity range							0~90%RH @0~40°C (Non condensing)				
Noise level							≤55dB at 1 Meter				≤58dB at 1 Meter

1. Specifications are subject to change without prior notice

2. Data above are typical values for reference only, not as a basis for engineering design

# SCC SOHO INVERTER Series

Powering the world future  
- www.kstarpower.com

Off-grid solar rechargeable household inverter power supply

600VA~6kVA



## Features:

### High reliability system

Advanced DSP digital automatic control technology to ensure the power durable and reliable

### Strong environment adaptability

Wide input voltage and frequency rang avoid frequent switching  
High input frequency range,easy access to all kinds of generator  
Higher charging current,more settable operation  
Intelligent charging management,more accuracy charging current detection and more reasonable for extention battery lift time.

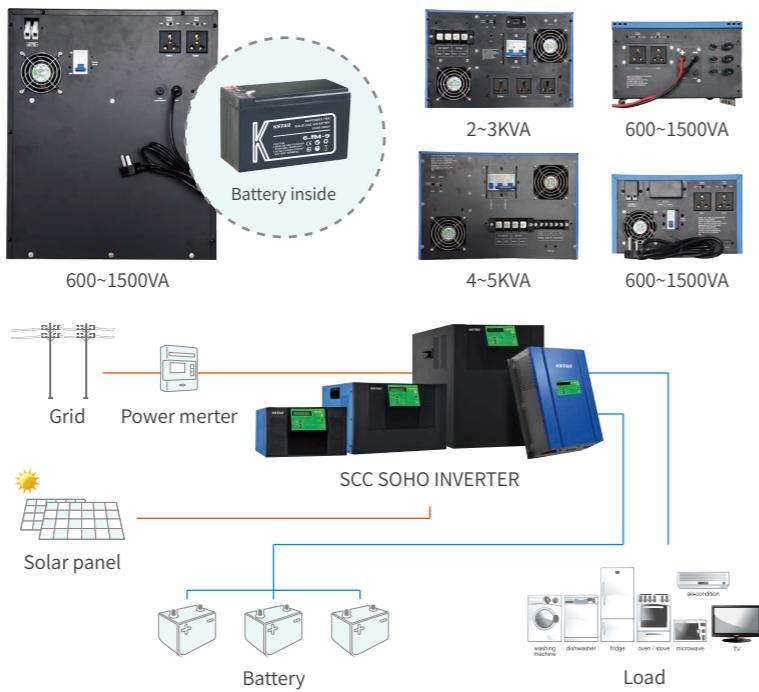
Three steps charging mode

### Full display information

LCD+LED display mode  
LED display:AC,PV,Inverter,output,fault,charge,battery low  
LCD display:input voltage,input frequency,output voltage,output frequency,battery voltage,  
Charing current is settable in LCD  
Output voltage is friendly settable in LCD panel

### Full protection function

Inverter short circuit and overload protect function,  
Inverter wave current limited protection  
Inverter Battery over discharge protection  
Battery disconected alarm protection



## Technical Specifications

MODEL	ICILPV-600	ICILPV-800	ICILPV-1000	ICILPV-1500	ICILPV-2000	ICILPV-3000	ICILPV-4000	ICILPV-5000	ICILPV-6000
Capacity (VA/W)	600VA/480W	800VA/640W	1000VA/800W	1500VA/1200W	2000VA/1600W	3000VA/2400W	4000VA/3200W	5000VA/4000W	6000VA/4800W
<b>LINE MODE</b>									
<b>INPUT</b>									
Nominal voltage									220Vac(L+N+PE)
Nominal frequency									50Hz
Operating voltage range				INV: 120~300Vac UPS: 145~285Vac					INV: 160~265Vac UPS: 190~260Vac
Operating Frequency range									38~70Hz
<b>OUTPUT</b>									
Output voltage						INV: 205~245Vac UPS: 170~255Vac			INV: 160~265Vac UPS: 190~260Vac
Power factor									0.8
Harmonic distortion(THDV)									≤3%
Frequency range									Same as Mains
Waveform									Tracking mains
Efficiency						≥94% (full load)			≥97% (full load)
Transfer Time							10ms Max(5ms typical)		
Overload capacity						≤120%: 3min; ≤130%: 30s; >130%: shutdown immediately			
Scoket						IEC/Schuko			Terminal
<b>Battery Mode</b>									
Battery Voltage	12Vdc		24Vdc		24/48Vdc				48Vdc
Output Voltage		220Vac±5%				220/230Vac±1%			
Frequency Range		50±1Hz				50/60±0.5Hz			
Waveform(Mains.mode)			Pure sinewave						
Efficiency			≥82% (full load)						≥85% (full load)
Overload capacity			≤110%: 10s; >110%: shutdown immediately						
<b>AC CHARGER</b>									
Charging Algorihm						'3-Step charing			
Maximum Charging Current		10/20A selectable			10/20/30A selectable		10/20/30/40/50A selectable		
Constant current charging voltage					14.1±0.3V/cell				
Floating Charging Voltage						13.8±0.3V/cell			
<b>SOLAR CHARGER</b>									
Battery Voltage	12Vdc		24Vdc		24/48Vdc				48Vdc
Maximum Charging Current		50A				50A/100A			100A
Operating Voltage	15~18Vdc		30~36Vdc		30~36/60~72Vdc				60~72Vdc
Minimum PV Voltage	9Vdc		18Vdc		18/36Vdc				36Vdc
Maximum PV Array Open Circuit Voltage	45Vdc		65Vdc		65/85Vdc				85Vdc
Floating Charging Voltage	13.8Vdc		27.6Vdc		27.6/55.2Vdc				55.2Vdc
<b>PROECTION</b>									
Full Protection						Overload,over-temperature,short-circuit protectio,over-voltage,abnormal output voltage			
<b>ALARM</b>									
Battery Mode						Beep 1 time/10s,mute after 3min			
Battery Low						Beep 2 times/1s			
Overload						Beep 1 time/2s,4 times in row			
Fault						Continously beeping			
<b>PHYSICAL</b>									
Dimension W x D x H (mm)			295x397x187			392x440x266			418x500x286
Net weight (kg)	14	16	17	19	27	32	39	45	50
<b>OPERATING ENVIRONMENT</b>									
Humidity range						0~90%RH @0~40°C (Non condensing)			
Noise level						≤55dB at 1 Meter			≤58dB at 1 Meter

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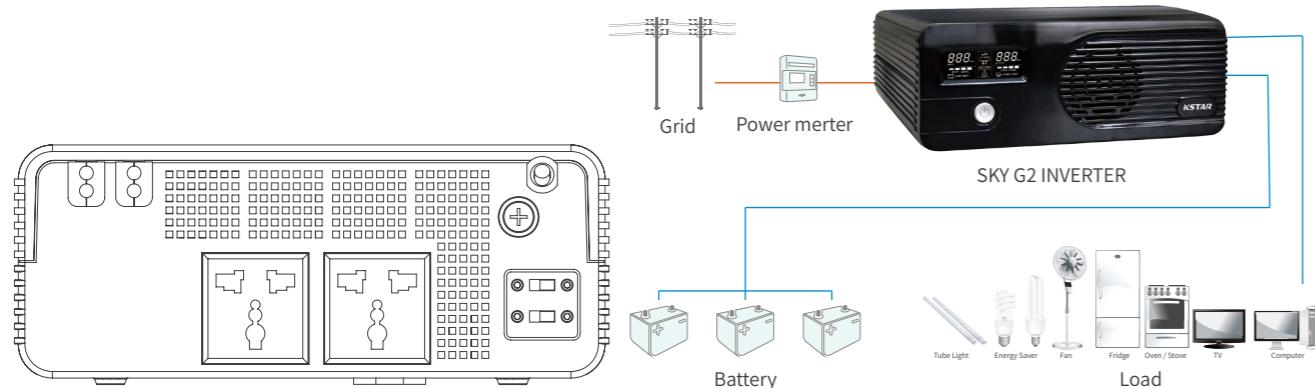
500VA~2000VA



## Features:

- User selectable for accepting wide input voltage
- Off mode charging function
- Fast charging capacity.Max 10A or 20A of charging current for choice
- 3 stage Intelligent charge control
- Full protection function
- Auto restart function
- LCD indicators and buzzer alarms
- Rack-Tower design for flexible placement
- Compact size for convenient use and storage

## Rear Panel:



## Technical Specifications

MODEL NAME	SKY G2 700	SKY G2 1400
CAPACITY (VA / W)	1000 / 700	2000 / 1400
<b>INPUT</b>		
Voltage Range		
Narrow Range Mode	170~280Vac	
Wide Range Mode	90~280Vac	
Frequency Range	50 / 60Hz (Auto sensing)	
<b>OUTPUT</b>		
AC Voltage Regulation (Batt.Mode)	230Vac ±10%	
Frequency Range(Batt.Mode)	50 / 60Hz ±1Hz	
Transfer Time	20 ms typical	
Waveform	Simulated Sine Wave	
<b>BATTERY</b>		
Battery Voltage	12V	24V
Charging Current	10A/20A	
<b>PROTECTION</b>		
Protection	Low battery alarm, low battery shutdown, over charge protection, overload protection, over temperature protection, short circuit protection	
<b>ALARM</b>		
Low Battery	Beep every second	
Overload	Beep every 0.5 second	
Fault	Continuous Beep	
<b>OPERATING ENVIRONMENT</b>		
Humidity	0-90% RH @ 0-50 °C (non-condensing)	
<b>PHYSICAL</b>		
Dimension (D×W×H) mm	310×239×93	
<b>OTHERS</b>		
AC input voltage range selection	Yes	
AC charging current selection	Yes	

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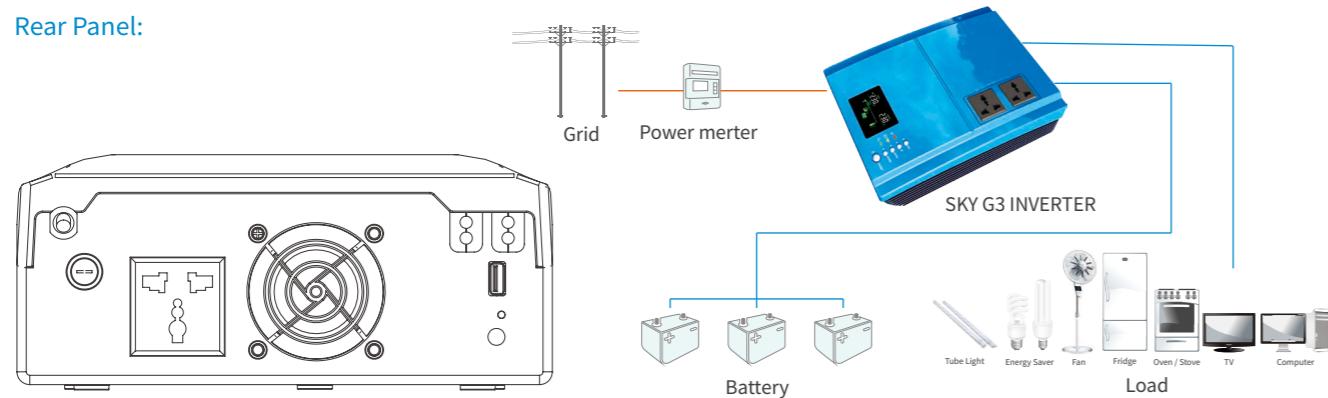
1000VA~2000VA



## Features:

- User selectable for accepting wide input voltage
- Fan speed automatic adjust with low noise
- DC cut-off voltage setting
- L o w
- L C D
- Off mode charging function
- indicators and buzzer alarms
- Rack-Tower design for flexible placement
- Compact size for convenient use and storage
- 3 stages Intelligent Charging Control
- Full protection function
- Buzzer mute control
- Auto restart function

## Rear Panel:



## Technical Specifications

MODEL NAME	SKY G3 900	SKY G3 1600
CAPACITY (VA / W)	1000 / 900	2000 / 1600
<b>INPUT</b>		
Voltage Range		
Narrow Range Mode	170~280Vac	
Wide Range Mode	90~280Vac	
Frequency Range	50 / 60 Hz (Auto sensing)	
<b>OUTPUT</b>		
AC Voltage Regulation (Batt.Mode)	230Vac ±10%	
Frequency Range(Batt.Mode)	50/60Hz ±1Hz	
Transfer Time	20 ms typical	
Waveform	Simulated Sine Wave	
<b>BATTERY</b>		
Battery Voltage	12V	24V
Charging Current	10A / 20A	
<b>PROTECTION</b>		
Protection	Low battery alarm, low battery shutdown, over charge protection, overload protection, over temperature protection, short circuit protection	
<b>ALARM</b>		
Low Battery	Beep every second	
Overload	Beep every 0.5 second	
Fault	Continuous Beep	
<b>OPERATING ENVIRONMENT</b>		
Humidity	0-90% RH @ 0-50 °C (non-condensing)	
<b>PHYSICAL</b>		
Dimension (D×W×H) mm	310×239×93	
<b>OTHERS</b>		
Built-in USB Charger (5V×1A max)	Optional	
AC input voltage range selection	Yes	
AC charging current selection	Yes	
Low DC cut-off voltage setting	Yes	
AC output rating voltage selection	Yes	
Buzzer mute control	Yes	
Battery Voltage & load percentage display	Yes	

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Off-grid solar rechargeable household inverter power supply

2KVA / 1600W with 50A solar charger | 1KVA / 900W with 50A solar charger



## Features:

### High reliability system

- Advanced digital automatic control technology ensure the power durable and reliable;

### Strong environment adaptability

- Wide input voltage and frequency range avoid frequent switching;
- 3 stages Intelligent Charging Control
- Off mode charging function

### Full protection function

- Inverter short circuit and overload protection function Battery over discharge protection
- The batteries will be disconnected and protected once fully charged.
- Battery will be back discharge protection through solar PV panels.
- Solar cell module, Battery polarity reverse connection circuit protection
- Solar charge controller,inverter,and other internal short circuit protection.

## Rear Panel:



## Technical Specifications

Model	SCC SKY G3 900	SCC SKY G3 1600
CAPACITY (VA / W)	1000 / 900	2000 / 1600
Nominal Battery Voltake (lead-acid battery)	12Vdc	24Vdc
<b>LINE MODE</b>		
INPUT		
Nominal Voltage	230Vac	
Voltage Range	170~280Vac (Narrow range) 90~280Vac (Wide range)	
Nominal Freqency	50Hz or 60Hz	
OUTPUT		
Voltage	230Vac	
Frequency / Waveform	Tracking the Utility	
Transfer Time	20ms Typical	
<b>BACKUP MODE</b>		
OUTPUT		
Voltage	220 / 230 / 240Vac	
Frequency	50Hz or 60Hz (Auto detection)	
Waveform	Simulated Sine Wave	
Protection	Low battery alarm, low battery shutdown, over charge protection, overload protection, over temperature protection, short circuit protection	
Battery charger (power by AC)		
Charging algorithm	3-steps charging	
AC charging mode	10A / 20A	10A / 20A
Floating charging voltage	13.75±0.25V	27.50±0.50V
Overcharging voltage	15.30V	30.60V
Solar battery charger		
MAX. input power	600W	1200W
Charging current (PWM)		50A
System DC Voltage	12Vdc	24Vdc
Optimal work voltage range	15V~18V	30V~32V
MAX. PV input current	40V	60V
MAX. PV input current		50A
<b>GENERAL</b>		
PHYSICAL		
Dimension (D×W×H) mm	316×227×92	
Net Weight (kg)	3.1	3.3
ENVIRONMENT		
Operating Environment	0~50°C, 0%~90% relative humidity (Non-condensing)	
Storage Environment	-15°C to 55°C, 0% to 90% humidity (Non-condensing)	
Noise Level	Less than 50dB	
Built-in USB Charger (5V×1A max)	Optional	
AC input voltage range selection	Yes	
AC charging current selection	Yes	
Low DC cut-off voltage setting	Yes	
AC output rating voltage selection	Yes	
Buzzer mute control	Yes	
Battery Voltage & load percentage display	Yes	

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## Green Earth, Our Common Family

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As an enterprise citizen, Kstar fully understands that the environment will impact on enterprise's sustainable development and Human being's future living greatly. Therefore, products and services from KSTAR group are safe and environmental-friendly throughout all life cycle. With environmental responsibilities on shoulder, KSTAR supplies customer with ECO-Product, and provides staff with a healthy and safe working environment. In order to make greater contributes to the sustainable development of both enterprise and society, KSTAR commits itself to reduce environmental pollution by variety ways.

