Introduction

Power Solid is an International brand which was founded in Vietnam. Power Solid deals with UPS, solar panels. inverters, batteries, and other related power solutions. Power Solid concentrates on customer values by providing quality of products and services in the most effective and innovative methods. We prioritize the environment and life with power management technology which is more sustainable and reliable because that is what really matters. Power Solid will be your dependable partner and will constantly develop quality for the products to all of our customers all around the world.

- Quality is Our Priority
- Your Satisfaction is Our Goal
- Your Power is Our Concern

Index

Features

>> Simple, compact and generous machine appearance
>> Super wide mains input range
>> Excellent microprocessor to ensure reliable operation
>> Mains restart function
>> Output modified sine wave
>> Automatic charge in off-mode
>> Cold start function
>> RGB
>> USB for charging / configuaring

Technical Specifications

Model	PS-PLGU1K#2B7T
Capacity	1000VA/600W
Input	
Voltage	220VAC
AC Mains Input Voltage Range	145-280 VAC (same as AC mains)
Frequency	50 Hz
Output	
Voltage Range (Battery Mode)	±10%
Frequency Range (BatteryMode)	50 Hz ±1 Hz
Transfer Time	＜6ms
Waveform (Battery)	Modified sine wave
Battery	
Battery Type & Quantity	12V/ 7Ah x 2
Battery Charging Time	6 hours charge to 90%
LED Indicators	
AC Mode	Green light
Battery Mode	Red light flash
Audible Alarm	
Battery Mode	Alarm beeps every six seconds
Low Battery	Alarm beeps every second
Overload	Alarm beeps twice every second
Fault	Alarm beeps continuously
Protection Function	
Comprehensive Protection	Overload, deep discharge and over-charge protection
Environment	
Temperature And Humidity	Relative humidity 0-90% and temperature 0- 40°C (No-condensing)
Noise	less than 40dB at one meter distance
Physical Function	
Dimensions D X W X H (mm)	460x408x313
Net Weight (kgs)	10.5

Features

>> Changable RGB lights based on the mode of the UPS
>> LCD Display
>> Input Voltage Range: 145~290 VAC
>> Simulated Sinewave (DC mode)
>> USB Communication port, Software, USB Cable
>> Output socket: Universal and European

Technical Specifications

Model	PS-PGU1500VA#2B9A
Capacity (VA / Watt)	1500VA/900W
Power Factor	0.6
Display	LCD
Input voltage range	145~290Vac
Output voltage range	220V±10%
Output frequency	47-54Hz (DC Mode)
Wave form	Simulated Sinewave
Transfer time	Typical 4-6ms
QTY & capacity of battery	12V/9AH x 2
Charging period	8 hours recover to 90% capacity
USB communication port, software,USB cable	Yes
Automatic charging (offline charging)	Yes
Battery low voltage protection	Yes
Short circuit & Overload protection	Yes
Silence function when the UPS on battery mode	Yes
RGB Light	2
USB 5V, 2A max.	2
Universal output socket	2
European output socket	2
Circuit breaker switch	1P 10A
Unit dimension (D x W x H) (mm)	330*115*265
Inner box dimension (D x W x H) (mm)	405*180*335
Master box dimension (D x W x H) (mm)	425*380*352
Pcs in one master carton	2
Gross weight (1pc, kg)	12.2
Net weight (1pc, kg)	11.7
Loading capacity (20' ctrn)	940

THE CROWN OF POWER SOLUTION

Features

- >> Compact size
- >> Excellent microprocessor control guarantees high reliability
- >> Boost and buck AVR for voltage stabilization
- >> Auto restart while AC is recovering
- >> Simulated sinewave
- >> Off-mode charging
- >> Cold start function

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Technical Specifications

Model	PS-PLU600V#1B7A	PS-PLU1K#2B7A	PS-PLU2K#2B9A
Capacity (VA / Watt)	600 / 360W	1000 / 600W	2000 / 1200W
Input			
Voltage	220 / 230 / 240 VAC		
Voltage Range	162 – 290 VAC		
Frequency Range	60/50 Hz (Auto Sensing)		
Output			
Voltage	220 / 230 / 240 VAC		
Voltage Regulation (Battery Mode)	± 10%		
Frequency Range (Battery Mode)	60Hz / 50Hz ± 1Hz		
Transfer Time	Typical 2-6 ms		
Wave Form (Battery Mode)	Simulated Sinewave		
Battery			
Battery Type & Number	12V / 7Ah x 1	12V / 7Ah x 2	12V / 9 Ah x 2
Typical Recharge Time	4-6 Hours recovery to 90% Capacity		
Indicators			
AC Mode	Green lighting	Green lighting	Green lighting
Battery Mode	Green Flashing	Green Flashing	Yellow Flashing
Fault	Not Available	Not Available	Red Lighting
Audible Alarm			
Battery Mode	Sounding every 10 second		
Low Battery	Sounding every second		
Over Load	Sounding every 0.5 Second		
Fault	Continuously Sounding		
Protections			
Full Protections	Overload, discharge, and overcharge protection		
Physical			
Dimension (D x W x H) (mm)	279 x 101 x 142	320 x 130 x 182	320x130x182
Net Weight (kg)	4.25kg	8.2kg	10.6kg
Environment			
Humidity	0-90% RH@ 0-40±°C (non-condensing)		
Noise Level (dB)	Less Than 40dB		

Features

>> Simple, compact and generous machine appearance
>> Super wide mains input range
>> Excellent microprocessor to ensure reliable operation
>> Mains restart function
>> Output modified sine wave
>> Automatic charge in off-mode
>> Cold start function
>> USB for charging / configuring
>> Europe & universal outlet type

Technical Specifications

Model	PS-PLU3K#4B9T
Capacity	3000VA /1800W
Input	
Voltage	220VAC
AC Mains Input Voltage Range	145-280 VAC (same as AC mains)
Frequency	50 Hz
Output	
Voltage Range (Battery Mode)	±10%
Frequency Range (Battery Mode)	50 Hz ±1 Hz
Transfer Time	＜6ms
Waveform (Battery)	Modified sine wave
Battery	
Battery Type & Quantity	12V/ 9Ah x 4
Battery Charging Time	6 hours charge to 90%
Audible Alarm	
Battery Mode	Alarm beeps every six seconds
Low Battery	Alarm beeps every second
Overload	Alarm beeps twice every second
Fault	Alarm beeps continuously
Protection Function	
Comprehensive Protection	Overload, deep discharge and over-charge protection
Environment	
Temperature And Humidity	Relative humidity 0-90% and temperature 0- 40°C (No-condensing)
Noise	less than 40dB at one meter distance
Physical Function	
Dimensions D * W * H (mm)	401*158*215
Net Weight (kgs)	18.61

Features

>> Output power factor 0.8
>> True double-conversion
>> Microprocessor control optimizes reliability
>> Wide input voltage (110 V- 300 V)
>> 50/60Hz Frequency Converter Mode
>> ECO mode energy saving
>> Smart SNMP works well with either USB or RS-232 together

Technical Specifications

Model		PS-POU1K#2B9A	PS-POU2K#6B9A	PS-POU3K#6B9A
Input				
Capacity (VA/Watt)		1000VA / 800W	2000 VA / 1600Watt	3000VA / 2400Watt
Voltage Range	Low Line Transfer	160VAC/140VAC/120VAC/110VAC ± 5% (Ambient Temp.<35°C) I based on load percentage 100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0)		
	Low Line Comeback	175VAC/155VAC/135VAC/125VAC ± 5 % (Ambient Temp.<35°C) I based on load percentage 100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0)		
	High Line Transfer	300 VAC ±5 %		
	High Line Comeback	290 VACS ± 5 %		
Frequency Range		40Hz - 70 Hz		
Phase		Single phase neutral and ground		
Power Factor		≥0.99 @ nominal voltage (input voltage)		
Output				
Output Voltage		200 /208 I 220 /230 I 240 VAC (Derate capacity to 80% of capacity in frequency converter mode or when the output voltage is adjusted to 200/208VAC)		
AC Voltage Regulation		±1%		
Frequency Range		47 ~ 53 Hz or 57 ~ 63 Hz (Synchronized Range)		
Frequency Range (Batt. Mode)		50 Hz± 0.25 Hz or 60Hz ± 0.3 Hz		
Overload		Ambient Temp.<35°C (105%~110%: UPS shuts down after 10 minutes at battery mode or transfer to bypass when the utility is normal Overload 110%~130%: UPS shuts down after 1 minute at battery mode or transfer to bypass when the utility is normal > 130%: UPS shuts down after 3 seconds at batter mode or transfer to bypass when the utility is normal		
Current Crest Ratio		3:1		
Harmonic Distortion		≤3 % THD (linear load); ≤ 6 % THD (non-linear load)		
Transfer Time	AC to Battery	Zero		
	Inverter to Bypass	4ms (Typical)		
Waveform		Pure Sinewave		
Power Factor		0.8		
Efficiency				
AC Mode		88%	89%	90%
Battery Mode		83%	87%	88%
Battery				
Battery Type		12 V /9AH		
Numbers		2	4	6
Recharge Time		4 hours recover to 90% capacity (Typical)		
Charging Current		1.0A (max.)		
Charging Voltage		27.4 VDC ± 1%	54.7V DC±1%	82.1 VDC±1%
Physical				
Dimension, D x W x H		282 x 145 x 220 (mm)	397 x 145 x 220 (mm)	421 x190 x 318(mm)
Net Weight (kgs)		9.8	17	27.6
Environment				
Operation Humidity		20-90%RH @ 0-40°C (non-condensing)		
Noise level (dB)		less than 50 dBA@ 1 Meter		
Management				
Smart RS-232 or USB		Supports Windows• 2000/2003/XP/Vista/2008/7/8/10/11, Linux, Unix and MAC		
Optional SNMP		Power management from SNMP manager and web browser		

Features

>> True double conversion wide input voltage (110 - 300V)
>> Smart fan-speed control design
>> Eco mode energy saving
>> Optional powerful charger for battery backup extension
>> Adjustable battery number
>> Common battery for parallel operation

Technical Specifications

Model		PS-POU6K#16B7A	PS-POU10K#16B9A
Capacity (VA / Watt)		6000VA / 4800W	10000VA / 8000W
Input			
Voltage Range	Low Line Transfer	110VAC ±3% at 50% Load; 176 VAC±3% at 100%Load	
	Low Line Comeback	Low Line Loss Voltage + 10V	
	High Line Transfer	300 VAC ±3%	
	High Line Comeback	High Line Loss Voltage – 10V	
Frequency Range		46Hz~54Hz @50Hz system / 56Hz~64Hz@60Hz system	
Phase		Single phase neutral and ground	
Power Factor		≥ 0.99 @ 100%Load	
Output			
Output Voltage		208 / 220 / 230 / 240 VAC (Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC)	
AC Voltage Regulation		±1%	
Frequency Range		46Hz~54Hz @50Hz system / 56Hz~64Hz@60Hz system	
Frequency Range (Batt. Model		50 Hz± 0.1Hz or 60Hz ± 0.1Hz	
Power Factor		0.8	
Overload	AC mode	100% ~ 110%: 30min; 110% ~ 130: 5min; > 130%: 10sec	
	Battery mode	100% ~ 110%: 3min; 110% ~ 130: 30sec; > 130%: 10sec	
Current Crest Ratio		3:1 Max	
Harmonic Distortion		≤ 3 % THD (linear load); ≤ 5 % THD (non-linear load)	
Transfer Time	AC to Battery	Zero	
	Inverter to bypass	Zero	
Waveform		Pure Sinewave	
Power Factor		0.8	
Efficiency			
AC Mode		92%	93%
Battery Mode		90%	91%
Battery			
Battery Type		12 V /7AH	12 V /9AH
Numbers		16	
Recharge Time		9 hours recover to 90% capacity (Typical)	
Charging Current		Default: 1±10% Max: 1A , 2A (Adjustable)	
Charging Voltage		218.4VDC±1%	
Physical			
Dimension, D x W x H		442 x190 x 688(mm)	
Net Weight (kgs)		61	66
Environment			
Operation Humidity		<95% and non-condensing	
Noise level (dB)		less than 55 dBA@ 1 Meter	
Operation Temperature		0~50°C (Battery Life cycle will be shorten when temperature is above 25°C)	
Operation Altitude		<1000m	
Management			
Smart RS-232 or USB		Supports Windows 2000/2003/XP/Vista/2008/7/8/10/11, Linux, Unix and MAC	
Optional SNMP		Power management from SNMP manager and web browser	

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Features

>> Compatible with (110 & 220)V Devices
>> Online Double Conversion
>> 0 (Zero) Transfer Time
>> Ideal Robustness for Heavy Loads
>> Inverter With IGBT Technology
>> Cold Start Function (Cold Start From Batteries)
>> Ups Monitoring Software
>> Automatic Electronic Bypass
>> Automatic Protection Cut-off at the Entrance
>> Isolation Transformer at the Output

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Technical Specifications

Model	PS-POU3KD#8B9K
Capacity (VA / Watt)	3000VA / 2400W
Input	
Voltage	220, 230, 240 VAC
Accepted Voltage Range	± 25% (165 - 300)
Phases	2 Phase (2 wires + ground)
Frequency (Hz)	60 ± 10 % (optional 50 ± 10 %)
Input Power Factor	0.90 empty > 0.95 at full load
Output	
Power Factor	0.8
Voltage (VAC)	120 - 208 - 220 - 240
Voltage Regulation Range	± 1%
Phases	2 phases (3 wires + ground)
Frequency (Hz)	60 ± 0.2% (optional 50 +_0.2%)
Wave Form	THD Pure sinusoidal wave ≤ 3% (linear load)
Transference Time (ms)	0.0 (on line)
Overload	125% of nominal load for 60 s; 150% for 1 s
Battery Bank	
Voltage	96VDC
Battery Type	Lead acid (sealed and maintenance free)
Full Load Battery Backup Time (min)	5
Charging Current (A)	1
Battery Bank	Internal
Physical & Mechanical	
Audible Noise (dB)	< 65, at 1 meter
MTBF (h)	100,000
Operational Temperature (°C)	0~40
Relative Humidity	0 ~ 95% without condensation
Maximum Operating Altitude (mamsl)	2,000 at 100% & 3,000 at 96%
Cabinet	Steel with electrostatic baked epoxy paint
Dimensions, height x width x depth (mm)	200 x 670 x 350
UPS Weight (kg)	46
Technology	
Conversion Type	On line double conversion (online)
Rectifier	H bridge PFC rectifier
Inverter Commutation Elements	PWM technology with IGBT con muted at 9000 Hz
Inverter Configuration	Pulse width modulated (PWM)
Inverter Type	H bridge
Battery Status	Real time online and discharge data with 3% precision
Thermal Dissipation (kBTU/h)	0,9
Internal Bypass	Static
Certifications	UL, 1778, CE-IEC 62040 - 1, ISO 9001:2015, NOM
Communication Interface	RS232 (SNMP network card, optional ethernet)
Monochromatic LCD Screen	Backlight: input/output voltage, load capacity, battery voltage, operating status
Alarm	Overload, abnormal alternate current on the input
Protections	
Overload Protection	Thermomagnetic switch

Features

>> True double-conversion online UPS
>> Output power factor 1.0
>> Built-in 80A MPPT solar charger and 60A AC charger
>> Configurable AC/Solar input priority via LCD setting
>> Parallel operation up to 9 units
>> Common 48Vdc battery pack for the parallel system
>> Configurable charging current via LCD setting
>> Compatible with Generator
>> Cold Start capability
>> Overload and short circuit protection

Technical Specifications

Model	PS-POU5KW#48VPV
MAXIMUM PV INPUT POWER	4000W
CAPACITY	5000VA/5000W
Input	
Voltage	230 VAC
Voltage Range	110-280 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing) ± 4Hz
Power Factor	> 0.98 @ Nominal Voltage (100% Load)
THDi	< 10%
Output	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz
Frequency Range (Batt. Mode)	50 Hz
Harmonic Distortion	≦ 3% THD (Linear Load), ; ≦ 5 % THD (Non-linear Load)
Transfer Time AC to Battery	Zero
Inverter to Bypass	4ms (Typical)
Waveform	Pure Sinewave
Efficiency	
Line Mode	93.0%
Battery Mode	90.0%
ECO Mode	99.0%
Battery	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	66 VDC
Physical	
Solar Charger type	MPPT
Maximum PV Array Power	4000 W
MPPT Range @ Operating Voltage	60 ~ 115 VDC
Maximum PV Array Open Circuit Voltage	145 VDC
Maximum Solar Charge Current	80 A
Maximum AC Charge Current	60 A
Environment	
Dimension, D x W x H(mm)	465 x 190 x 336
Net Weight (kgs)	16
Communication Interface	RS232 & USB
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 60°C

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Features

- >> True double-conversion
- >> Microprocessor control optimizes reliability
- >> Input power factor correction
- >> Output power factor 0.9
- >> wide input voltage range
- >> Converter mode available
- >> ECO mode for energy saving
- >> Adjustable charging current via LCD or software (1-3,5A)
- >> Comprehensive display allows easy monitoring and access of UPS status

Technical Specifications

Model		PS-POU1KR#2B9A	PS-POU2KR#4B9A	PS-POU3KR#6B9A
Capacity (VA/Watt)		1000VA / 900W	2000VA / 1800W	3000VA / 2700W
PHASE		Single Phase with ground		
Input				
Nominal Voltage		200/208/220/230/240 VAC		
Input Voltage Range		120-300 VAC at 50%Load 180 – 280 VAC at 100%Load		
Frequency Range		40Hz - 70 Hz		
Power Factor		≥0.99 @ nominal voltage (input voltage)		
Output				
Output Voltage		200 / 208 / 230 / 240 VAC		
Voltage Regulation		±1%		
Frequency Range		47 ~ 53 Hz or 57 ~ 63 Hz (Synchronized Range)		
Frequency Range (Batt. Mode)		50 Hz± 0.25 Hz or 60Hz ± 0.3 Hz		
Current Crest Ratio		3:1		
Harmonic Distortion		≤3 % THD (linear load); ≤ 6 % THD (non-linear load)		
Transfer Time	AC to Battery	Zero		
	Inverter to Bypass	4ms (Typical)		
Waveform		Pure Sinewave		
Power Factor		0.9		
Efficiency				
AC Mode		88%	89%	90%
Battery Mode		83%	87%	88%
Indicators & Alarm				
LCD Panel		UPS status , Load Level , Battery Level , Input / Output Voltage , Discharge Timer, and Fault conditions		
Battery Mode		Sounding every 4 seconds		
Low Battery		Sounding every second		
Over Load		Sounding twice every second		
Fault		Continuously sounding		
Battery				
Battery Type		12 V /9AH	12 V /9AH	12 V /9AH
Numbers		2	4	6
Recharge Time		4 hours recover to 90% capacity (Typical)		
Charging Current		3.5A		
Charging Voltage		27.4 VDC ± 1%	54.7 VDC ± 1%	82.1 VDC ± 1%
Physical				
Dimension, D x W x H		310 x 438 x 88 (mm)	410 x 438 x 88 (mm)	630 x 438 x 88 (mm)
Net Weight (kgs)		12	19	29.3
Environment				
Operation Humidity		20-90%RH @ 0-40°C (non-condensing)		
Noise level (dB)		less than 50 dBA@ 1 Meter		
Management				
Smart RS-232 or USB		Supports Windows• 2000/2003/XP/Vista/2008/7/8/10/11, Linux, Unix and MAC		
Optional SNMP		Power management from SNMP manager and web browser		

Features

>> True double-conversion
>> Microprocessor control optimizes reliability
>> Input power factor correction
>> Output power factor 0.9
>> Wide input voltage range
>> Converter mode available
>> Emergency power off function (EPO)
>> Comprehensive display allows easy monitoring and access of UPS status

Technical Specifications

Model		PS-POU6KR#20BC7A	PS-POU10KR#20BC9A
Capacity (VA/Watt)		6000VA / 5400W	10000VA / 9000W
PHASE		Single Phase with ground	
Input			
Nominal Voltage		208 / 220 / 230 / 240 VAC	
Input Voltage Range		110-300VAC ± 3% at 50%Load 176-300VAC ± 3% at 100%Load	
Frequency Range		46Hz ~ 54Hz or 56Hz ~ 64Hz	
Power Factor		≥0.99 @ nominal voltage (100%Load)	
Output			
Output Voltage		208 / 220 / 230 / 240 VAC	
Voltage Regulation		±1%	
Frequency Range		46Hz ~ 54Hz or 56Hz ~ 64Hz (Synchronized Range)	
Frequency Range (Batt. Mode)		50 Hz± 0.1 Hz or 60Hz ± 0.1 Hz	
Current Crest Ratio		3:1	
Harmonic Distortion		≤3 % THD (linear load); ≤ 6 % THD (non-linear load)	
Transfer Time	AC to Battery	Zero	
	Inverter to Bypass	Zero	
Waveform		Pure Sinewave	
Power Factor		0.9	
Efficiency			
AC Mode		91%	
Battery Mode		88%	
Indicators & Alarm			
LCD Panel		UPS status, Load Level, Battery Level, Input / Output Voltage, Discharge Timer, and Fault conditions	
Battery Mode		Sounding every 4 seconds	
Low Battery		Sounding every second	
Over Load		Sounding twice every second	
Fault		Continuously sounding	
Battery			
Battery Type		12 V / 7AH	12 V / 9AH
Numbers		20	20
Recharge Time		4 hours recover to 90% capacity (Typical)	
Charging Current		2A	
Charging Voltage		273 VDC ± 1%	273 VDC ±1%
Physical			
Dimension, D x W x H(mm)	UPS	580 x 438 x 133	688 x 438 x 133
	Battery Pack (3U)	580 x 433 x 133	580 x 438 x 133
Net Weight (kgs)	UPS	17	c
	Battery Pack (3U)	57	63
Environment			
Operation Humidity		20-90%RH @ 0-40°C (non-condensing)	
Noise level (dB)		less than 55 dBA@ 1 Meter	
Management			
Smart RS-232 or USB		Supports Windows• 2000/2003/XP/Vista/2008/7/8/10/11, Linux, Unix and MAC	
Optional SNMP		Power management from SNMP manager and web browser	

THE CROWN OF POWER SOLUTION

Features

- » 3 level Technology
- » Output PF up to 1.0
- » AC/AC efficiency up to 95%
- » Anti-corrosion resistant coating for all PCB boards
- » High power density design

THE CROWN OF POWER SOLUTION

Technical Specifications

Model	PS-POU3K#6B9K	PS-POU10K#16B9K
Capacity (VA / Watt)	3000VA / 3000W	10000VA / 10000W
Input		
Voltage (Vac)	120-295	80 ~ 275
Frequency (Hz)	50/60± 10% (50/60Hz auto-sensing)	
Power Factor	≥0.99	
THDi at full Linear Load	<4%	<5%
Output		
AC/AC Efficiency (Max.)	94%	95%
Power Factor*	1.0	
Voltage (Vac)	208/220/230/240±1%（selectable on display panel）	
Frequency (Hz)	50/60±0.2% (battery mode)	
THDv	THD<2% (linear load); THD<5% (non-linear load)	
Overload*	101~105 for 1min,106-120% 5s, over 120% 200ms	
Transfer Time	0	
Current Crest Ratio	3:1	
Battery		
Voltage (Standard)(Vdc)	72	192(192~240)
Internal battery	6×9Ah	16×9Ah (16~20)
Charger Current (A) Max.	1	1~8
Physical		
Dimension (W×D×H) (mm)	190×400×330	230×577×553
Weight (Standard) (kg)	22.9	60.2
Other		
Communication Interface	RS232+EPO (USB, SNMP, RS485+dry contact are optional in slot)	
LCD Display	AC input & output voltage, frequency, Load level, Battery level, Temperature; AC mode, Battery mode, Bypass mode, and Fault	
Alarm	Low battery, abnormal AC input, UPS failure, etc.	
Protection	Low battery, overload, short-circuit and over temperature, etc.	
Noise (dB)	<50	<55
Working Temperature (°C)	-5 ~ 40	

Features

» Adjustable Input and Output Configuration
» High AC/AC Efficiency up to 96%
» kVA=kW(PF=1.0) up to 40no derate.
» Tower and Rack Compatible Design
» Support 4 Units Parallel
» Common battery bank on Parallel

Technical Specifications

Model		PS-POU20KR#40BC0K
Capacity (VA/Watt)		20000VA / 20000W
Input		
Phase		3:3/3:1/1:1
Voltage (Vac)		80-280(L-N)/138-485 (L-L)
Frequency (Hz)		40-70
Power Factor		≥0.99
THDi at full Linear load		<3%
Dual Main Input		Yes
Output		
Capacity (kVA)		20
AC/AC Efficiency (Max.)		96%
Power Factor		1.0 at 40ºC
Voltage (Vac) 2		220/230/240±1%(L-N) 380/400/415±1%(L-L)
Frequency (Hz)		50/60±0.1 (battery mode)
THDv		THD <1% (linear load), THD <4%(non-linearload)
Transfer Time		0
Overload		115% load long run,130% load for 15 min, 150% load for 1 min, above 150% load: 200ms
ECO Mode		Yes
Battery		
Voltage (Vdc)		±240 (±144~±240 adjustable)
Charging Current (A)		4 (1-10 settable)
Physical		
Dimension, D x W x H	UPS	438×500×130 (3U)
	Distribution Box	438×500×130 (3U)
	Batt. Pack	438×500×130 (3U)
Net Weight (kgs)	UPS	20
Other		
Communication Interface		RS485+EPO (RS232+dry contact, SNMP are optional in slot)
Display		Multi-functional LCD
Alarm		Low battery, abnormal AC input, UPS failure, etc.
Protection		Low battery, overload, short-circuit and over temperature, etc.
Noise (dB)		<55
Working Temperature (ºC)		-5~40
Altitude(m)		2000, no derate
Relative Humidity		0 ~ 95%, no condensation

THE CROWN OF POWER SOLUTION

Features

- >> Multi-funtional touch screen
- >> Adjustable Input and Output Configuration
- >> AC/AC Efficiency up to 96%
- >> Output power factor 1.0
- >> 4 Units Parallel
- >> Compact footprint with integrated autonomy
- >> Integrated with input,output,bypass,maintenance bypass and battery breaker

Technical Specifications

Model	PS-POU10K3311#40B9K	PS-POU20K3311#40B9K
Capacity (KVA)	10	20
Input		
Voltage (Vac)	80-280(L-N)/138-485 (L-L)	
Frequency (Hz)	40-70	
Dual Main Input	Yes	
Power Factor	≥0.99	
Phase	3:3/3:1/1:1	
THDi at full linear load	<3%	
Output		
AC/AC Efficiency (Max.)	96%	
Power Factor	1.0	
Voltage (Vac)	220/230/240±1%(L-N) 380/400/415±1%(L-L)	
Frequency (Hz)	50/60±0.1 (battery mode)	
THDv	THD <1% (linear load), THD <3% (nonlinear load)	
Crest Factor	3:1	
Overload	105% load for long run, 110%load for 60 mins, 130% load for 10 mins, 155% load for 1 min, above 155% load for 200ms	
EPO	Remote and Local	
Cold Start	Yes	
Battery		
Voltage (Vdc)	±240(±96 ~±240 adjustable)	±240(±144 ~±240 adjustable) *
Internal Battery	16~40*7AH/12V	24~40*9AH/12V
Charging Current (A)	1-10 settable	
Physical		
Dimension (W×D×H) (mm)	250*755*880	
Weight (kg) With Battery	135(40×7AH)	144(40*9AH)
Weight (kg) Without Battery	53	
Other		
CommunicationInterface	RS485+EPO+Dry contact (1 input,5 output) (RS232+dry contact, SNMP are optional in slot)	
Display	4.3 Inch Touch Screen+ LED+ Physical buttons	
Alarm	Low battery, abnormal AC input, UPS failure, etc.	
Protection	Low battery, overload, short-circuit and over temperature, etc.	
Noise (dB)	<55	
Working Temperature °C	-5~40	
Relative Humidity	0 ~ 95%, no condensation	
Altitude(m)	2000, no derate	

Features

>> Multi-funtional touch screen
>> Adjustable Input and Output Configuration
>> AC/AC Efficiency up to 96%
>> Output power factor 1.0
>> 4 Units Parallel
>> Compact footprint with integrated autonomy
>> Integrated with input,output,bypass,maintenance bypass and battery breaker

Technical Specifications

Model		PS-POU30K331#40B9K	PS-POU40K331#40B9K
Capacity (KVA)		30	40
Input			
Voltage (Vac)		138-485 (L-L)	
Frequency (Hz)		40-70	
Dual Main Input		Yes	
Power Factor		≥0.99	
Phase		3:3/3:1	
THDi at full linear load		<3%	
Output			
AC/AC Efficiency (Max.)		96%	
Power Factor		1.0	
Voltage (Vac)		220/230/240±1%(L-N) 380/400/415±1%(L-L)	
Frequency (Hz)		50/60±0.1 (battery mode)	
THDv		THD <1% (linear load), THD <3% (nonlinear load)	
Crest Factor		3:1	
Overload		105% load for long run, 110%load for 60 mins, 130% load for 10 mins, 155% load for 1 min, above 155% load for 200ms	
EPO		Remote and Local	
Cold Start		Yes	
Battery			
Voltage (Vdc)		±240(±144 ~±240 adjustable) *	
Internal Battery		80 X 7AH/12V	80 X 9AH/12V
Charging Current (A)		1-20 settable	
Physical			
Dimension (W×D×H) (mm)		300 x 785 x 1250	
Weight (kg)	With Battery	248(80X7AH)	289(80*9AH)
	Without Battery	85	
Other			
CommunicationInterface		RS485+EPO+Dry contact (1 input,5 output) (RS232+dry contact, SNMP are optional in slot)	
Display		4.3 Inch Touch Screen+ LED+ Physical buttons	
Alarm		Low battery, abnormal AC input, UPS failure, etc.	
Protection		Low battery, overload, short-circuit and over temperature, etc.	
Noise (dB)		<55	
Working Temperature °C		-5~40	
Relative Humidity		0 ~ 95%, no condensation	
Altitude(m)		2000, no derate	

THE CROWN OF POWER SOLUTION

Features

» Power Factor =0.9
» Small Footprint
» High Efficiency 94%
» All Series Touch Screen Design
» Galvanic Isolation Transformer
» Double Button Switch Prevent Misoperation

THE CROWN OF POWER SOLUTION

Technical Specifications

Model	PS-POU40KT3#30BC0K
Capacity (KVA)	40
Input	
Voltage (Vac)	380/400/415±25%
Rectifier Frequency (Hz)	40~70
SYNC FrequencyTracking (Hz)	50/60±10% (±5% optional)
Phase	3ϕ4W+PE
Output	
Power Factor	0.9
Phase	3ϕ4W+PE
Voltage (Vac)	L—N：220/230/240±1%，L-L:380/400/415±1%，
Frequency (Hz)	50/60±0.2 (battery mode)
Waveform	Pure sine wave, THD≤2% (linear load)
3 Phases 100%Load Unbalance Voltage Stability	≤2%， allow 100% unbalance
Overload	125% load for 10mins, 150% load for 1 min
Battery	
Voltage (Standard)(Vdc)	348 (360 setting)
Battery Type	External
Charger Current (A) Max.	10~40A setting
Physical	
Dimension (W×D×H) (mm)	500×800×1600
Weight (Standard) (kg)	400
Other	
MaintenanceBypass	Yes
CommunicationInterface	RS485/MODBUS/dry contacts (SNMP is optional)
Display	Touch screen + LED
Alarm	Overload, abnormal AC input, low battery, UPS failure
Protection	Low battery, overload, over temperature, short circuit, output over voltage, output low voltage
Noise (dB)	< 65
Working Temperature	0 ~ 40℃
Relative Humidity	0 ~ 95%, No condensation

Features

>> Output power factor 1.0
>> High efficiency up to 96%.
>> Super wide input voltage range (-60%~+25%).
>> Frequency range (40~70)Hz.
>> Robust Over Load ability.
>> Anti-corrosion resistant coting in all PCB boards.
>> ECO mode efficiency > 99% gives significant reduction of TCO.
>> Self-Load test function without load.
>> Self-dedusting function.

Technical Specifications

Model	PS-POU60K3#48BC0K	PS-POU80K3#48BC0K	PS-POU100K3#48BC0K	PS-POU120K3#48BC0K	PS-POU160K3#48BC0K	PS-POU200K3#48BC0K
Input						
Voltage (Vac)	380/400/415 (138~485 L-L)					
Frequency (Hz)	40~70					
Power Factor	≥0.99					
Phase	3ϕ4W+PE					
THDi	≤2% (linear load, full load); ≤3% (nonlinear load, full load)					
BYPASS						
Bypass Voltage (Vac)	380/400/415: -20%~+15%					
Frequency Range (Hz)	50/60(±5%/±10%)					
Overload	≤130%: long run; 131%-150%: 5min; 151%-200%: 1s; 201%-300%: 100ms; >300%: protect immediately					
Output						
Power Factor	1 (0.5 leading to 0.5 lagging)					
Voltage (Vac)	380/400/415±1%					
Frequency (Hz)	50/60±0.1% (Battery mode)					
Phase	3ϕ4W+PE					
Three Phase Difference	≤1%					
THDv with 100% load	<1% at linear load, <3% at non-linear load					
Transfer Time (ms)	0					
Efficiency	up to 96.5%					
Overload	≤105%: Long run; 106%-110% load: 60 mins, 111%-125% load: 10 mins, 126%-150% load:1 min, >150% load: 200ms					
Battery						
Battery Voltage (Vdc)	±192(±168 ~±288 adjustable)		±240(±168 ~±288 adjustable)			
BATT Type	External					
Charging Current (A) MAX	30				60	
Physical						
Dimension (W×D×H) (mm)	400×960×1200				600×1000×1600	
Weight (Standard) (kg)	145	159	161	163	310	312
GENERAL						
CommunicationInterface	RS485, MODBUS, dry contact (RS232, SNMP, expend dry contact card are optional in slot)					
Display	4.3-inch Touch screen+LED+LED bar				7-inch touch screen+LED+LED bar	
Alarm	AC input abnormal, low battery, overload, failure					
Protection	Output short-circuits, overload, over-temperature, battery low voltage, output over/low voltage					
Noise (dB)	<65					
IP	20					
Altitude(m)	0-2000 no derate. 2000-3000 m derate power by 1 % per each 100 m increase					
Working Temperature °C	0 ~ 40 no derate,40~50 auto derate.					
Relative Humidity	0 ~ 95%, no condensation					

THE CROWN OF POWER SOLUTION

Features

» AC/AC Efficiency up to 97%
» Output PF up to 1.0
» Common battery function
» Support Parallel model up to 9.6MVA

THE CROWN OF POWER SOLUTION

Technical Specifications

Model	PS-POU400K3#44BC0K	PS-POU600K3#44BC0K
Capacity (KVA)	400	600
Input		
Rate Voltage	380/400/415	
Voltage Range	228-477 (-40%~+25%)	
Phase	3Ph+N+PE	
Frequency Range (Hz)	50/60±10% (±5% settable)	
Power Factor	≥ 0.99	
THDi	≤ 2% full load, ≤ 4% half load, ≤ 5% 30% load	
Output		
Output Voltage (Vac)	380/400/415±1%	
Frequency (Hz)	50/60±0.5%	
THDv	Pure sine wave, THD<1% (linear load), THD<3% (nonlinear load)	
PF	0.9 (1.0 optional)	
Max. Efficiency	97%	
Phase	3Ph+N+PE	
Overload	110% load for 60 min, 125% load for 10 min, 150% load for 1 min	
Battery		
Voltage (Vdc)*	480 (12V battery from 32 to 44 cells settable)	
Charging Current (A)	25-100	
Battery Management	Self-testing function	
Bypass		
Input Voltage (Vac)	380/400/415 (-25%~+20%)	
Frequency Range	50/60Hz±10% (±5% optional)	
Phase	3Ph+N+PE	
Physical		
Dimension (W×D×H) (mm)	1000×900×1950	1400×900×1950
Weight (Standard) (kg)	750	1100
Other		
Communication Interface	RS232, RS485, Dry contact, MODBUS, SNMP (optional)	
Display	7-inch touch screen + LED	
Operating Temperature (ºC)	-5~40	
Alarm	Input abnormal, battery low-voltage, output overload, UPS failure	
Protection	Short-circuit, overload, over-temperature, battery under voltage, input under voltage	
IP	IP20	
Noise (dB)	<75	
Altitude (m)	1500	

Features

>> Online double conversion
>> Battery cold start function
>> Advanced power module sleep mode
>> Dual system control card
>> Self-load test function
>> Redundant design
>> Compatible with lithium battery

Technical Specifications

Model		PS-PMU300K50#46BC0K	PS-PMU600K50#46BC0K
Capacity (KVA)		50KVA	
Input			
Rated Voltage (Vac)		380/400/415	
Voltage Range (Vac)		L: L 138~485	
Input Frequency (Hz)		40~70	
Bypass Voltage Range (Vac)		-15% (-20%/-30% optional) ~+15% (+10% /+20% optional)	
Power Factor		≥0.99	
THDi		<5% (nonlinear, full load)	
Phase		3Φ4W+PE	
Battery Voltage (Vdc)		±240 (±168~±276 settable)	
Charging Current (A)		N×10 Maximum (N: the number of power modules)	
Output			
Capacity (kVA)		300KVA	600KVA
Power Factor		1	
Phase		3Φ4W+PE	
Waveform		Sine Wave	
Voltage (Vac)		L-L:380, 400, 415±1%	
Frequency (Hz)		50/60±0.2% (Battery Mode)	
Three Phase Difference		≤1 Degree	
THDv		≤1% (linear Load, Full load), ≤4% (Non load, full load)	
Static Bypass Transfer Time		0	
Max. System Efficiency		97%	
Parallel Mode		Advanced no-master-slave parallel technology, N+1 redundancy	
Overload Capacity		106-110% load for 60mins, 111%-130% load for 10mins 131%-150% load for 1 min, 151%-200% load for 200ms	
Physical			
Dimension (W×D×H) (mm)		600×860×2000	1200×860×2000
Weight (Standard) (kg)	Cabinet	236	427
	Bypass Moule	25	31
	Power Modul	33	33
Other			
Working Temperature (°C)		-5~40	
Storage Temperature (°C)		-40~70	
Relative Humidity		0% ~ 95% no condensing	
Battery Type		Lead-acid batteries and lithium iron phosphate batteries	
Communication Interface		RS485, RS232, dry contact (SNMP optional)	
Noise (dB)		< 70	

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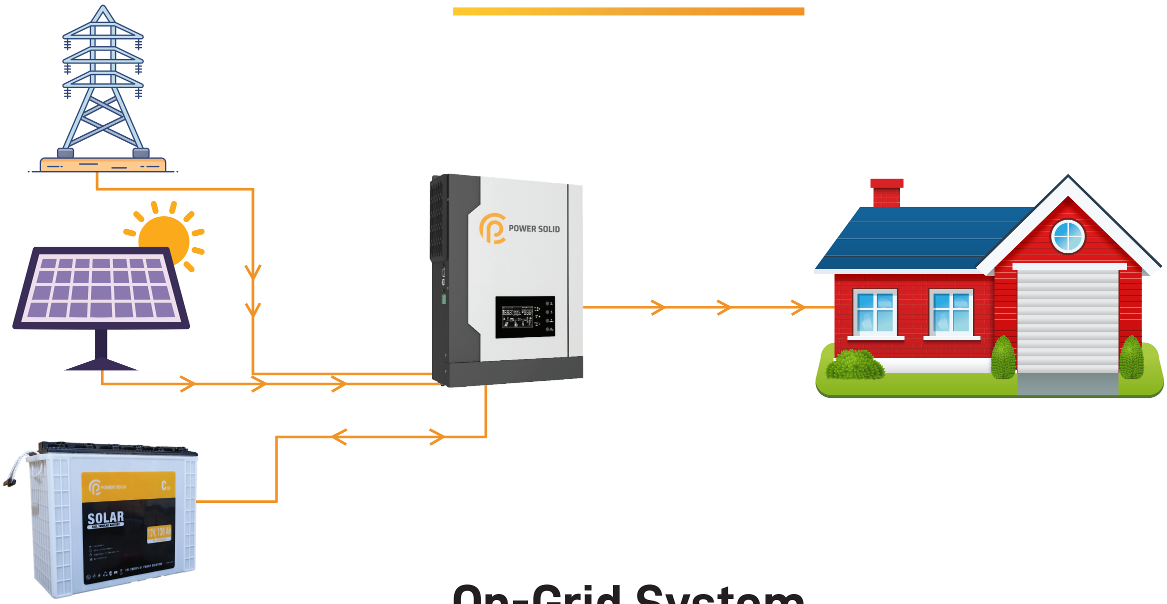
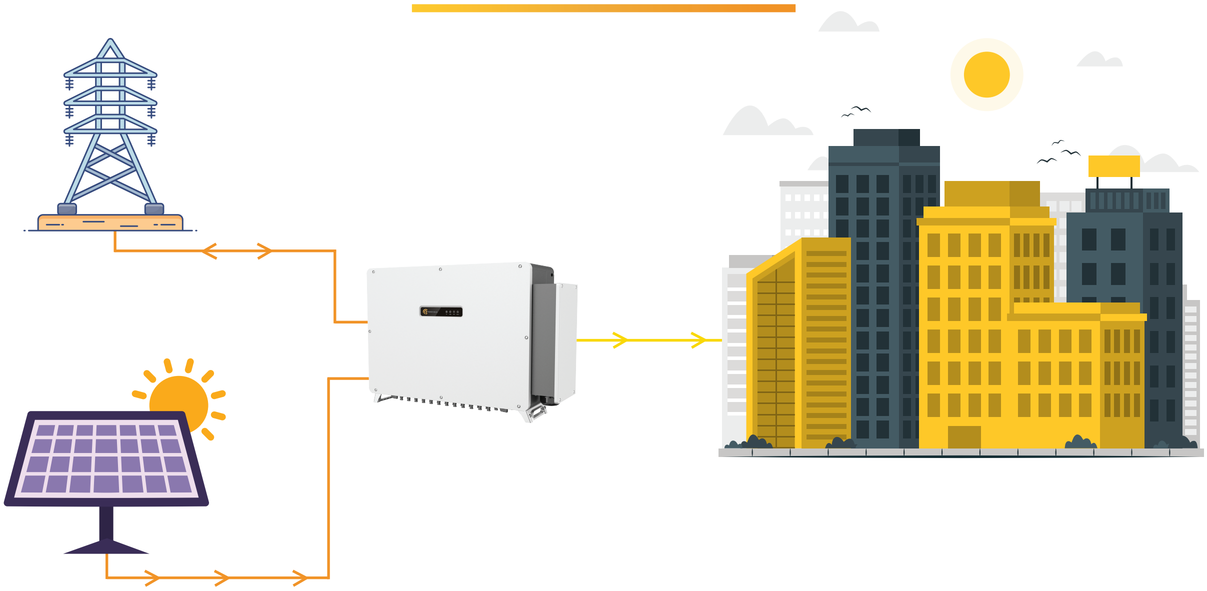
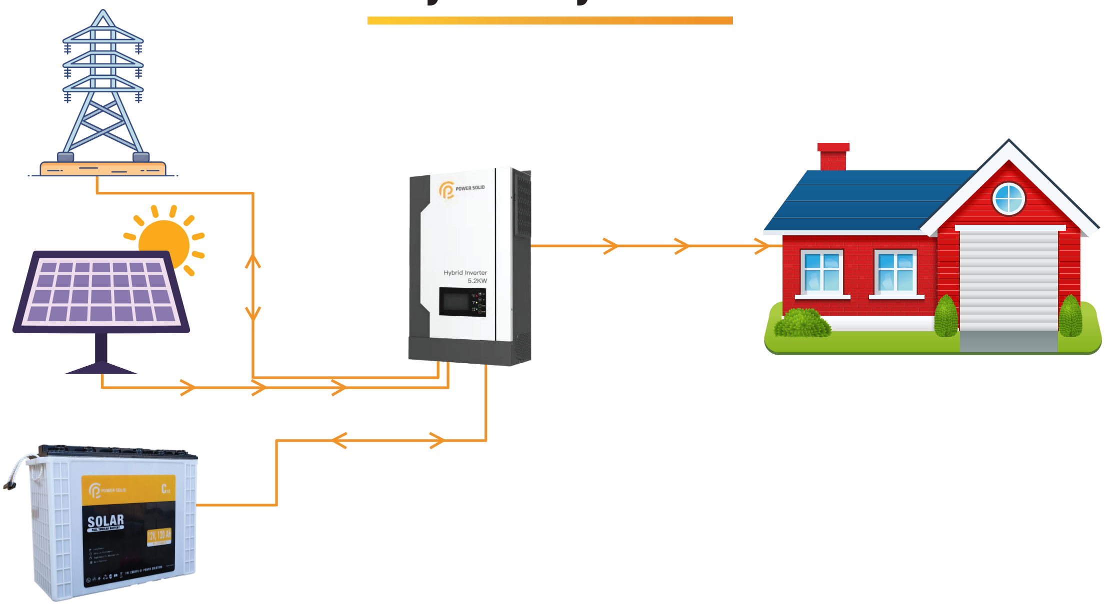
Off-Grid System



On-Grid System



Hybrid System



Features

>> Pure sine wave output
>> Built in MPPT solar charge controller 60A
>> DC Start & Automatic Self-Diagnostic Function
>> High Efficiency Design & "Power Saving Mode" to Conserve Energy
>> Auto restart when Ac in recovering
>> Selectable charging current based on applications
>> AC input/DC input/Solar input optional priority
>> Wall-Mounted
>> AVR function
>>IP24

Technical Specifications

Model	PSi400VAO#12VT
Capacity (VA)	400VA
Input Voltage (DC)	12V
Nominal Voltage	220VAC（Standard）
Voltage Range	154-275VAC ± 5V （Normal Mode)
Frequency	50/60Hz±5%
Rated Power	250W
Output Voltage (AC)	220VAC±10%（With AVR function）
Output Frequency (AC)	50/60Hz±5%
Output Voltage (DC)	220VAC±3%
Waveform	Pure Sine Wave
Battery Type	Lead acid battery, flooded battery, lithium battery
Battery voltage	12VDC
Battery Charging Voltage	13.75VDC
Maximum PV array power	800W
PV Input Voltage Range (MPPT Controller)	15V-150VDC
Maximum photovoltaic open circuit voltage	150VDC
Maximum solar charging current	Up to 60A
Maximum AC charging current	30A
Transfer Time	≤10ms
Load peak ratio	（MAX） 3:1 / 500ms
Protections	Inverter: overload protection, short circuit protection, low voltage protection, (can be with the battery anti-back plate)
LCD indicator status	AC input voltage, AC input frequency, PV voltage, PV current, Output Voltage, Output
Audible alarm	Low battery protection-continuous beeping
	Low battery protection-1 second beeping
	Overload-continuous beeping
	Overload less than 130%-1 second beeping and shutdown the output after 30 seconds; Overload more than 150%, shutdown the output after 300ms
	Malfunction-continuous beeping
Working temperature	0-60℃
Storage temperature	-15℃~45℃
Relative humidity	-10℃~90℃ Non condensing
Noise(dB)	>55dB
Dimension (L*W*H) mm	470*335*210MM
Weight (kg)	11kg

THE CROWN OF POWER SOLUTION

Features

>> Rated power 800W
>> Pure sine wave output
>> Smart LCD setting (frequency, charge voltage,
>> charge current, etc.).
>> 3 steps charging algorithm
>> Built in AVR function
>> Overload and short-circuit protection
>> Deep discharge protection
>> Cold start function
>> Support USB monitoring function

Technical Specifications

Model	PSi800W#12VM
Default battery system voltage	12VDC
Inverter Output	
Rated Power	800W
Surge Rating (20ms)	2400W
Waveform	Pure Sine Wave
Rated Output Voltage	Inverter: 230VAC (+/5% RMS), AVR; 195VAC-245VAC
Output Frequency	50Hz/60Hz +/- 0.2Hz
Inverter Efficiency (Peak)	>75%
Bypass Efficiency	>95%
Output Transfer Time	Typical: 6ms 10ms (Max)
AC Input	
Voltage	220/230/240VAC
Selectable Voltage Range	140 - 280VAC+/- 5%
Low Voltage Alarm	140 VAC +/- 5%
High Voltage Alarm	280VAC +/- 5%
Low Frequency Alarm	45+/- 0.2Hz
High Frequency Alarm	65+/- 0.2Hz
Nominal Input Frequency Range	50Hz /6 0Hz +/- 0. 2Hz
AC Auto Re start	YES
Battery	
Minimum Start Voltage	Low Battery Voltage Cutoff+0.5V
Low Battery Alarm	Low Batter y Voltage Cutoff+0.5V
Low Battery Cutoff	10-12.0VDC
High Battery Cutoff	Nominal Voltage+0.5V
AC Charge	
Floating Voltage	13.5 / 13.6/ 13.7VDC
Nominal Voltage	13.8~14.5 V
Maximum Charge Current	25A
Bypass & Protection	
Input Frequency	50Hz or 60 Hz
Low Frequency Trip	45+/-0.2Hz
Overload Protection	110%~125 %R Load fault after 30S / 125% ~ 150%R Load fault after 3s / >150%R Load fault after 500ms
Over Temperature Protection	≥90°C
Bypass Output Protection	10A 250VAC
Battery Reverse Protection	YES
Battery Low/High-voltage Protection	YES
Bypass Breaker Rating	10 A
Maximum Bypass Current	10 A
Mechanical Specification	
Dimension	315*145*210mm
(N.W) kg	12.5
Shipping Dimensions (W*H*D)	420*280*225mm
(G.W) kg	13
Other	
Operating Temperature	0 °C - 40°C 0~90% relative humidity (non -condensing)
Altitude	≤ 1000M
Audible Noise	≤ 60dB
Cooling mode	Fan cooling
Fan starting	>45°C starting, <30°C Closing
Communication	USB

Features

>> Front-end maintenance
>> ECO working mode
>> Compatible with Air-conditioner
>> SPWM inversion technology
>> Wholesome Protective measures
>> Parallel for 3KVA (optional)

Technical Specifications

Model Name	PSi1000VAT#48VK
Input	
DC Voltage Range (Vdc)	40~60
AC Voltage (ECO) (Vac)	110/120/220/230±15%
Frequency Range (Hz)	50/60Hz±10%
Output	
Power Capacity (VA/W)	1000/700
Voltage (Vac)	110/120/220/230±2% (Inverter)
Waveform	110/120/220/230±15% (ECO mode)
Frequency (Hz)	Sine Wave, THD<3%
Output	50/60±0.5%
Other	
Alarm	Battery low voltage, inverter failure
Panel Display	LED indicators show status of Inverter's operation
CommunicationInterface	Dry contact
Protection functions	Low battery, Over voltage, Overload, Short-circuit and Over temperature.
Noise(dB)	<55
Working Temperature (ºC)	0~40C
Relative humidity	0~95%, no condensation
Dimension (WxDxH) (mm)	440×286×1U
Weight (Kg)	5

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Features

>> Pure sine wave output
>> DC Start & Automatic Self-Diagnostic Function
>> High Efficiency Design &" Power Saving Mode" to Conserve Energy
>> Auto restart when AC in recovering
>> Smart battery charger design for optimized battery performance
>> Selectable charging current based on applications
>> AC input/DC input/Solar input optional priority
>> Auto Restart Voltage

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Technical Specifications

Model	PSi1500VA#12VT	PSi2000VA#24VT
Capacity (VA)	1500VA	2000VA
Input Voltage (DC)	12V	24V
Input Nominal Voltage	220VAC	
Input Voltage Range	154-265VAC (AC Mode);185-264VAC±3V (UPS Mode)	
Input Frequency	50-60HZ Auto sensing	
Output Power Factor	0.8	
Output Rated Power	1200W	1600W
Output Voltage	220VAC	
Output Frequency	50/60HZ	
Output Waveform	Pure Sine Wave	
Output Transfer Time	<8ms	
Output Bypass Mode	Yes	
Output Saver Mode	Yes	
Output Efficiency	>98%	
Input Protection	Circuit Breaker	
Output Protection	Circuit Breaker	
Battery Type	AGM-Deep Cycle, Gel/Up to 500AH	
Battery DC Charging	25A	18A
Battery Low Level	10V or 10.5V	20V or 21V
LCD indicator status	AC input voltage, AC input frequency, PV voltage, PV current, Output Voltage, Output Frequency, Battery voltage,	
LED indicator status	AC Line In: Green/Inverter: Green/Charging: Yellow/Alarm: Red	
Protections	Over load, over temp, over charging, battery low, battery reverse connects, high AC voltage etc.	
Alarm LOW battery	Audible alarm-5 seconds beeping	
Alarm Overload alarm	Audible alarm- continuous beeping	
Alarm Fault	Audible alarm- continuous beeping	
Environment Temperate	0-40℃	
Humidity	—10℃~90℃ Non condensing	
Noise (dB)	>55dB	
Size L*W*H(mm)	430*220*185mm	
Packaging	560*335*250mm	
Weight (kg)	14.5	17

Features

>> LCD display, easy to read how inverter operates on LCD screen
>> 5 -levels DIP switch, offering customized performance
>> 9 - levels battery selector, enable to charge Gel, lead-acid battery
>> DC/AC priority optional
>> 4 levels charge current adjustable
>> With RS232 communication port
>> With BTS & AGS, optimizing battery performance & start generator automatically
>> Power saver Switch, enable to minimize standby consumption

Technical Specifications

MODEL	PSi3000W#12VM	PSi3000W#24VM
Nominal Battery System Voltage	12VDC	24VDC
INVERTER OUTPUT		
Rated Power	3KW	
Surge Rating	9000VA	
Capable Of Starting Electric Motor	2HP	
Waveform	Pure sine wave \ same as input (bypass mode)	
Nominal Output Voltage RMS	110V \115V \ 120V \ 220V \ 230V \ 240VAC ±10% (RMS)	
Output Frequency	50Hz \ 60Hz ±0.3Hz	
Inverter efficiency (Peak)	>88%	
Line Mode Efficiency	>95%	
Power Factor	1.0	
Typical Transfer Time	10ms(max)	
AC INPUT		
Voltage	230VAC	
Selectable Voltage Range	96~132VAC 155~280VAC (For personal computers)	
Frequency Range	50Hz \ 60Hz (Auto sensing) 40~80Hz	
BATTERY		
Minimum Start Voltage	(10V \ 10.5V \ 11V) +0.5V for 12VDC mode (*2 for 24VDC)	
Low Battery Alarm	(10V \ 10.5V \ 11V) +0.5V for 12VDC mode (*2 for 24VDC)	
Low Battery Cutoff	10V \ 10.5V \ 11V for 12VDC mode (*2 for 24VDC)	
High Voltage Alarm	(13.8-14.5V) +1V for 12VDC mode (*2 for 24VDC)	
High Battery Voltage Recover	(13.8-14.5V) +0.5V for 12VDC mode (*2 for 24VDC)	
Idie Consumption-Search Mode	Load ≤50±20W(120V) \100±20W(220V)	
CHARGER		
Output Voltage	Depends on battery type	
Charge AC Input Breaker Rating (230V)	2-3K\30A	
Overcharge Protection S.D.	15.7VDC for 12VDC mode (*2 for 24VDC mode)	
Maximum Charge Current	60A	40A
Bypass & Protection		
Input Voltage Waveform	Sine wave (grid or generator)	
Nominal Input Frequency	50Hz or 60Hz	
Overload Protection (SMPS Load)	Circuit breaker	
Output Short Circuit Protection	Circuit breaker	
Bypass Breaker Rating (230V)	1-3K\30A	
Max Bypass Current	30Amp	
MECHANICAL SPECIFICATIONS		
Mounting	Wall Mount	
Dimensions (W*H*D) (mm)	426*206*178	
Net Weight (Solar CHG) (kg)	24.5	
Shipping Dimensions (W*H*D) (mm)	585*350*310	
Shipping Weight (Solar CHG) (kg)	27.5	
Other		
Operation Temperature Range	0℃ to 40℃	
Storage Temperature	-15℃ to 60℃	
Audible Noise	60dB MAX	
Display	LED+LCD	

THE CROWN OF POWER SOLUTION

Off-Grid Solar Inverter 3000, 5000VA

Features

>> Pure sine wave solar inverter
>> Output power factor 1
>> Built-in 80A MPPT solar charger
>> Battery equalization function to optimize battery performance and extend lifecycle
>> Built-in anti-dust kit for harsh environment

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Technical Specifications

Model	PSi3000W#24VPVM	PSi5000W#48VPVM
Nominal Battery System Voltage	24VDC	48VDC
INVERTER OUTPUT		
Rated Power	3000W	5000W
Surge Power	6000W	10000W
Waveform	Pure Sine Wave	
AC Voltage Regulation (Batt.Mode)	(220VAC~240VAC) ±5%	
Inverter Efficiency (Peak)	93%	
Transfer Time	10ms (Narrow Range) 20ms (Wide Range)	
AC INPUT		
Voltage	230VAC	
Selectable Voltage Range	170~280VAC (Narrow Range) \ 90~280VAC (Wide Range) \ 184~253VAC(VDE4105)	
Frequency Range	50Hz/60Hz (Auto sensing)	
BATTERY		
Normal Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
Overcharge Protection	30VDC	60VDC
SOLAR CHARGER & AC CAHRGER		
Maximum PV Array OpenCircuit Voltage	145VDC	
PV Array MPPT VoltageRange		64~130VDC
Standby PowerConsumption	2W	
PV Input Power	2000W	4000W
Maximum Solar ChargeCurrent	80A	
Maximum Efficiency	98%	
Maximum AC ChargeCurrent	30A	60A
Maximum Charge Current	80A	140A
MECHANICAL SPECIFICATIONS		
Machine Dimensions(W*H*D) (mm)	272*355*100	297.5*468*125
Package Dimensions(W*H*D) (mm)	540*395*241	638*395*241
Net Weight(kg)	11	13.3
Gross Weight(kg)	12	16.4
OTHER		
Humidity	5% to 95% Reality Humidity (Non-condensing)	
Operating Temperature	0°C ~55°C	
Storage Temperature	-15°C ~60°C	

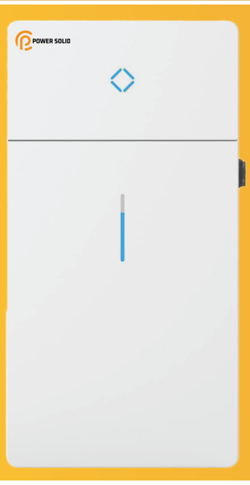
Features

>> Pure sine wave output
>> Smart LCD setting.
>> Built-in MPPT 80A solar charge controller
>> MAX PV Array Open Circuit Voltage: 450V
>> Can provide the power to the load without battery
>> Combining solar system, AC utility, and battery power source to supply continuous power
>> Overload, short circuit and Deep discharge protection
>> Cold start function
>> Support USB monitoring function

Technical Specifications

Model	PSi5200W#48VPVM
Nominal Battery System Voltage	48VDC
INVERTER OUTPUT	
Rated Power	5200VA \ 5200W
Surge Power	10KW
Waveform	Pure sine wave
AC Voltage Regulation (Batt.Mode)	230VAC±5%(Setting)
Inverter Efficiency (Peak)	90%~93%
Transfer Time	10ms (Narrow Range) 20ms (Wide Range)
AC INPUT	
Voltage	230VAC±5%
Selectable Voltage Range	170~280VAC (narrow range) \ 90~280VAC (wide range)
Frequency Range	50Hz/60Hz (Auto sensing)
BATTERY	
Normal voltage	48VDC
Floating Charge Voltage	54.8VDC
Overcharge Protection	60VDC
SOLAR CHARGER & AC CHARGER	
Maximum PV Array Open Circuit Voltage	450VDC
Maximum PV Array Power	5000W
PV Array MPPT Voltage Range	150~450 VDC
Maximum Solar Charge Current	80Amp/100Amp
Maximum AC Charge Current	60Amp
Maximum Charge Current	140Amp\160Amp
MECHANICAL SPECIFICATIONS	
Machine Dimensions (W*H*D) (mm)	330*488*119
Package Dimensions (W*H*D) (mm)	396*638*241
Net Weight(kg)	14
Gross Weight(kg)	16.4
OTHER	
Humidity	5% to 95% Relative humidity (non-condensing)
Operating Temperature	-10℃ ~50℃
Storage Temperature	-15℃ ~60℃

THE CROWN OF POWER SOLUTION



Features

- >> Cloud Control Compatible
- >> Better PV utilization
- >> Faster charging
- >> More flexible application
- >> Higher battery efficiency
- >> Easy installation
- >> Easy capacity expansion
- >> Intelligent monitoring
- >> Smart power grids

Technical Specifications

Technical Specifications

Inverter Specification	
Model	PSSi5000W#580VK
PV Parameters	
Max. PV input power	7500W
Max. PV input voltage	580Vdc
MPPT voltage range	100Vdc~ 550Vdc
Max input current	15Adc×2
Input	
Rated output power	5000W
Rated input power	10000W
Rated output voltage	220/230/240Vac
Grid frequency range	50Hz/60Hz
Rated output current	21.7A
Rated input current	43.4A
Power factor	>0.99
Max Efficiency	97.70%
Europe Efficiency	97.10%
THDi	<3%
Output	
Rated output voltage	220/230/240Vac
Output frequency	50(60) Hz
Output power	5000W
Transfer time	<10ms
Voltage harmonic	<2% (linear load)
Battery	
Rated charging voltage	85Vdc~450Vdc
Max charging power	5000W
Max charging current	32A
Max discharging power	7500W
Physical	
Cooling type	Natural cooling
IP grade	IP65
Noise	<25dB
Display	LED/APP
Relative humidity	0 ~ 100%, non-condensation
Operating temperature range	-25°C~ +60°C
Altitude	3000m
On-grid standard	VDE0126-1-1, VDE-AR-N4105, AS4777.2/.3, CEI 0-21
Safety	IEC62109-1, IEC62109-2, AS62040-1-1
EMC	EN61000-6-3, EN61000-6-2
Communication	RS485, WIFI, Meter
Accessories	Meter
Dimensions (W×H×D)	580×1120×230 mm
Battery Specifications	
Model	**PS-PSLB8.2K**
Battery type	LiFePO4
Battery capacity	8.2kWh
Scalable capacity range	8.2~32.8kWh (95%DoD)
Voltage range	240-288V
Operating temperature range	-10°C~50°C*
Cycles	10000**

THE CROWN OF POWER SOLUTION

Features

>> Self-consumption and feed-in to the grid
>> Programmable supply priority for PV, Battery or Grid
>> Programmable multiple operations modes: Grid tie, Off grid, and grid-tie with backup
>> Built-in Timer for various mode of on/off operation
>> Multiple communication for USB, RS-232, Mod-bus and SNMP
>> Monitoring software for real time status display and control
>> Parallel operation up to 6 units

Technical Specifications

MODEL	PSHi15KW3#48VPV
PHASE	3-phase in / 3-phase out
MAXIMUM PV INPUT POWER	22500 W
RATED OUTPUT POWER	15000 W
MAXIMUM CHARGING POWER	15000 W
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 900 VDC
Start-up Voltage / Initial Feeding Voltage	320 VDC / 350 VDC
MPP Voltage Range	350 VDC ~ 850 VDC
Number of MPP Trackers/Maximum Input Current	2 / A: 37.65A; B: 18.6A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 264.5 180 VAC per phase
Nominal Output Current	21.7A per phase
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	120 - 140 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	40 A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC to AC)	91%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
Maximum Charging Current	Default 60A, 5A - 300A (Adjustable)
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	219 x 650 x 820
Net Weight (kgs)	62
INTERFACE	
Communication Port	RS-232, USB and Dry contact
Intelligent Slot	Optional SNMP, Modbus and AS-400 cards available
ENVIRONMENT	
Humidity	0 ~ 90% RH (Non-Condensing)
Operating Temperature	-10 to 55°C
Altitude	0 ~ 1000 m**

Features

>> Pure sine wave output
>> Self-consumption and Feed-in to the grid
>> Programmable supply priority for PV, Battery or Grid
>> True galvanic isolation transformer design
>> User-adjustable charging current
>> Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
>> Built-in timer for various mode of on/off operation
>> Multiple communication for USB, RS-232, Modbus and SNMP
>> Monitoring software for real-time status display and control
>> Parallel operation up to 4 units

Technical Specifications

MODEL	PSHi30KW3#480VPV
MAXIMUM PV INPUT POWER	45KW
RATED OUTPUT POWER	30KW
MAXIMUM CHARGING POWER	30KW
HYBRID OPERATION	
PV INPUT (DC)	
Nominal DC Voltage / Maximum DC Voltage	720 VDC / 950 VDC
Start-up Voltage / Initial Feeding Voltage	500 VDC / 550 VDC
MPP Voltage Range	460 VDC ~ 900 VDC
Number of MPP Trackers / Maximum Input Current	1 / 72 A
GRID OUTPUT (AC)	
Nominal Output Voltage	230 VAC* (P-N) / 400 VAC (P-P)
Output Voltage Range	195.5 - 253 VAC per phase
Output Frequency Range	49 ~ 51 Hz or 59.3 ~ 60.5 Hz
Nominal Output Current	43.5 A per phase
Power Factor	1
AC INPUT	
AC Start-up Voltage / Auto Restart Voltage	150 - 170 VAC per phase / 180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC per phase
Maximum AC Input Current	43.5 A per phase
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	230 VAC (P-N) / 400 VAC (P-P)
Efficiency (DC/AC)	>91%
BATTERY & CHARGER	
Nominal Battery Voltage/Charging Voltage Range	384 VDC / 384 VDC ~ 480 VDC
Maximum Charging Current	80A
GENERAL	
PHYSICAL	
Dimension, D x W x H (mm)	430 x 715 x 1021
Net Weight (kgs)	223
INTERFACE	
Communication Port	RS-232/USB
Intelligent Slot	Optional SNMP, GPRS, WIFI, Modbus cards available
ENVIRONMENT	
Humidity	0 ~ 90% RH (Non-Condensing)
Operating Temperature	-10 to 55°C
Altitude	0 ~ 1000 m**

THE CROWN OF POWER SOLUTION

Features

High efficiency

>> High-efficiency inverter topology ensures annual power generation

>> Advanced control algorithms and high adaptation ability to the grid, improving the stability of power generation system

Safe and reliable

>> IP65 for outdoor application

>> Integrated AC/DC full lightning protection

>> Aluminum alloy die-casting integrated chassis, ensure 25 years full life circle running

THE CROWN OF POWER SOLUTION

Technical Specifications

Model	PSiO6000W#600VPVK
DC Input	
Max. PV input voltage	600Vdc
Rated input voltage	360Vdc
Max. PV input current	22A (2×11A)
No. of MPPTs	2
No. of PV strings per MPPT	1/1
MPPT voltage range	100Vdc~550Vdc
Starting voltage	120Vdc
AC Output	
Rated AC output power	6.0kW
Max. output power	6.0kW
Rated AC output voltage	220V/230Vac
Rated output current	26.0A
Max. output current	26.0 A
Rated grid frequency	50/60Hz
Grid frequency range	45~55Hz/55~65Hz
Power factor	>0.99 full load
Adjustable power factor	0.8(leading)~0.8(lagging)
THDI	<3% (nominal power)
Efficiency	
Max. efficiency	98.30%
European efficiency	97.90%
Protection	
Anti-islanding	Yes
DC reversed connection	Yes
AC short circuit protection	Yes
Temperature protection	Yes
Surge protection	Yes
PV fault detect	Yes
DC switch	Optional
General	
Dimensions (W×H×D)	360×420×125mm
Weight	12.6kg
IP grade	IP65
Noise level	≤25dB
Self-consumption at night	<1W
Cooling type	Natural cooling
Altitude	4000m (>2000m derating)
Operating temperature	-40°C~60°C (>45°C derating)
Operating humidity	0~100%
Display	LCD+LED
Communication	RS485/WIFI (optional)/GPRS (optional)/DRM (Australia)
DC terminal	H4 Terminal
AC terminal	Plug and play connector
Installation method	Wall-mounted

ON-GRID SOLAR INVERTER 20KW

Features

Efficient and flexible

>> 2 independent MPPT, more generation

>> Advanced control algorithms and high adaptation ability to the grid, improving the stability of power generation system

Safe and reliable

>> IP65 for outdoor application

>> Integrated AC/DC full lightning protection

Technical Specifications

Model	PSiO20000W3#1000VPVK
DC Input	
Max. PV input voltage	1000Vdc
Rated input voltage	600Vdc
Max. PV input current	44A (4×11A)
No. of MPPTs	2
No. of PV strings per MPPT	2/2
MPPT voltage range	200Vdc~950Vdc
Starting voltage	200Vdc
AC Output	
Rated AC output power	20kW
Max. output power	22kW
Rated AC output voltage	380/400/415Vac
Rated output current	29.0A
Max. output current	31.9A
Rated grid frequency	50Hz/60Hz
Grid frequency range	45~55Hz/55~65Hz
Power factor	>0.99 (full load)
Adjustable power factor	0.8 (leading)~0.8 (lagging)
THDI	<3% (rated power)
Efficiency	
Max. efficiency	98.60%
European efficiency	98.30%
Protection	
Anti-islanding	Yes
DC reversed connection	Yes
AC short circuit protection	Yes
Temperature protection	Yes
Surge protection	Yes
PV fault detect	Yes
DC switch	Yes
General	
Dimensions (W×H×D)	480×420×180mm
Weight	25kg
IP grade	<50dB
Noise level	IP65
Self-consumption at night	<1W
Cooling type	Intelligent forced air cooling
Altitude	4000m (>3000m derating)
Operating temperature	-25ºC~60ºC (>45ºC derating)
Operating humidity	0~100%
Display	LCD+LED
Communication	RS485/WIFI (optional)/GPRS (optional)/DRM (Australia)
DC terminal	H4 Terminal
AC terminal	OT Terminal
Installation method	Wall-mounted

Features

Efficient and flexible
>> 3 Level topology, Maximum Efficiency 99%
>> 3/4 MPPT design
Safe and reliable
>> Outdoor IP65 design, no derating below 3000m altitude
>> Integrated AC/DC full lightning protection

THE CROWN OF POWER SOLUTION

Technical Specifications

Model	PSiO60000W3#1100VPVK
DC Input	
Max. PV input voltage	1100Vdc
Rated input voltage	600Vdc
Max. PV input current	120A (12x10A)
No. of MPPTs	4
No. of PV strings per MPPT	3/3/3/3
MPPT voltage range	300Vdc~1000Vdc
Starting voltage	350Vdc
AC Output	
Rated AC output power	60kW
Max. output power	66kW
Rated AC output voltage	380/400/415Vac
Rated output current	86.6A
Max. output current	95.3A
Rated grid frequency	50Hz/60Hz
Grid frequency range	45~55Hz/55~65Hz
Power factor	>0.99 (full load)
Adjustable power factor	0.8 (leading)~0.8 (lagging)
THDI	<3% (rated power)
Efficiency	
Max. efficiency	99.00%
European efficiency	98.45%
Protection	
Anti-islanding	Yes
DC reversed connection	Yes
AC short circuit protection	Yes
Temperature protection	Yes
Surge protection	Yes
PV fault detect	Yes
DC switch	Yes
General	
Dimensions (W×H×D)	600×860×294mm
Weight	65kg
IP grade	IP65
Noise level	<65dB
Self-consumption at night	<1W
Cooling type	Intelligent forced air cooling
Altitude	3000m (>3000m derating)
Operating temperature	-25ºC~60ºC (>45ºC derating)
Operating humidity	0~100%
Display	LCD+LED
Communication	RS485/WIFI (optional)/GPRS (optional)
DC terminal	H4 Terminal
AC terminal	OT Terminal
Installation method	Wall-mounted

Features

Efficient and flexible

>> Advanced three-level technology max. efficiency 98.8%

>> 9-12 MPPTs design, compatible with bifacial PV panel

>> Anti-PID and PID recovery function

Safe and reliable

>> IP66 and C5 anti-corrosion grade, intelligent fan with IP68 protection

>>Redundant power supply by AC and DC

>> Built-in AC / DC SPD protection

Technical Specifications

Model	PSiO125000W3#1100VK
DC Input	
Max. PV input voltage	1100Vdc
Max. PV input current	270A/ 360A (30A×9/12)
No. of MPPTs	9/12
No. of PV strings per MPPT	2
MPPT voltage range	200Vdc~1000Vdc
Starting voltage	250Vdc
MPPT Efficiency	99.90%
AC Output	
Rated AC output power	125kW
Max. output power	125kVA
Rated AC output voltage	400Vac
Rated output current	180.4A
Max. output current	180.4A
Rated grid frequency	50/60Hz
Grid frequency range	45~55Hz/55~65Hz
Power factor	>0.99 (rated power)
Adjustable power factor	+0.8~-0.8
THDI	<3% (rated power)
Efficiency	
Max. efficiency	98.80%
European efficiency	98.40%
Protection	
Anti-islanding	Yes
DC reversed connection	Yes
AC short circuit protection	Yes
Temperature protection	Yes
Surge protection	Yes
PV fault detect	Yes
DC switch	Yes
General	
Dimensions (W×H×D)	1100×760×361mm
Weight	95kg
IP grade	IP66
Self-consumption at night	<2W
Cooling type	Intelligent forced air cooling
Altitude	5000m (>4000m derating)
Operating temperature	-35~60ºC
Relative humidity	0~100%
Display	LED+WIFI (APP)
Communication	RS485/WIFI (optional)/GRPS (optional)
DC terminal	Amphenol H4
AC terminal	OT/DT Terminal
Installation method	Wall-mounted

THE CROWN OF POWER SOLUTION


POWER SOLID
PS-121000-GS
12V,100Ah
GEL DEEP CYCLE
Lead Acid Battery
Cycle use : 14.1 - 14.4 V (25°C)
Standby use : 13.6 - 13.8 V (25°C)
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POWER SOLID
PS-122000-GSS
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PS-12400-GS
12V,40Ah
GEL DEEP CYCLE
Lead Acid Battery
PowerSolid
POWER SOLID
PS-1290-AS
POWER SOLID
PS-1250-AS
POWER SOLID
LITHIUM IRON PHOSPHATE BATTERY
POWER SOLID

Features

>> Designed floating charging service life: 8 years (25ºC)
>> Sealed and maintenance free operation
>> Safety valve installation for explosion proof
>> Low self-discharge characteristic
>> Wide operating temperature range from 0ºC~40ºC
>> Lead Aluminum calcium Tin alloy high energy, prevent corrosion
>> Maximum discharge current :Ampere x 10 for 5 Seconds

Constant Current Discharge Datasheet (Watt at 25ºC)

End Voltage (V)	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20

PS-645-AS

5.10	90.7	65.40	52.95	29.90	21.80	16.58	12.72	9.57	6.83	4.50	3.17	2.57	1.38
5.25	86.9	63.20	51.35	29.28	21.29	16.32	12.53	9.43	6.68	4.45	3.15	2.53	1.36
5.40	82.4	60.85	49.70	28.43	20.75	16.05	12.35	9.30	6.56	4.40	3.11	2.49	1.34

PS-1250-AS12V5.0Ah

10.20	210.1	151.1	122.3	69.09	50.37	38.31	29.39	22.11	15.78	10.40	7.32	5.93	3.193
10.50	200.7	146.1	118.7	67.66	49.20	37.71	28.95	21.80	15.42	10.29	7.27	5.83	3.151
10.80	190.3	140.7	114.8	65.70	47.95	37.09	28.53	21.49	15.15	10.16	7.19	5.74	3.099

PS-1270-AS12V7.0Ah

10.20	282	203.4	164.7	93.00	67.80	51.58	39.56	29.76	21.24	14.00	9.86	7.98	4.30
10.50	270	196.7	159.8	91.08	66.24	50.76	38.98	29.34	20.76	13.84	9.78	7.86	4.24
10.80	256	189.4	154.6	88.44	64.56	49.92	38.40	28.92	20.40	13.68	9.68	7.73	4.18

PS-1290-AS12V9.0Ah

10.20	362	261	211	119.3	86.98	66.17	50.75	38.18	27.25	17.96	12.65	10.24	5.51
10.50	347	252	205	116.8	84.98	65.12	50.01	37.64	26.63	17.75	12.55	10.08	5.43
10.80	329	243	198	113.5	82.82	64.04	49.26	37.10	26.17	17.55	12.42	9.91	5.36

PS-12120-AS12V12Ah

10.20	484	349	282	159.4	116.2	88.42	67.82	51.02	36.41	24.00	16.90	13.68	7.36
10.50	464	337	274	156.1	113.6	87.02	66.82	50.30	35.59	23.73	16.77	13.47	7.26
10.80	439	325	265	151.6	110.7	85.58	65.83	49.58	34.97	23.45	16.59	13.25	7.16

Features

- >> Designed floating charging service life: 12 years (25ºC)
- >> Safety valve installation for explosion proof ,Sealed and maintenance free operation
- >> By using strong grids, high purity lead and patented Gel electrolyte
- >> Extremely low self-discharge characteristic
- >> Wide operating temperature range from -20ºC~55ºC
- >> Lead Aluminum calcium Tin alloy high energy, prevent corrosion
- >> Maximum discharge current :Ampere x 10 for 5 Seconds

THE CROWN OF POWER SOLUTION

Constant Current Discharge Datasheet (Watt at 25ºC)

End Voltage (V)	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20

PS-12180-GS12V18Ah

10.20	726	523	423	239	174.3	132.6	101.7	76.53	54.62	36.00	25.35	20.52	11.05
10.50	695	506	411	234	170.3	130.5	100.2	75.45	53.38	35.59	25.15	20.21	10.89
10.80	659	487	398	227	166.0	128.4	98.74	74.37	52.46	35.18	24.89	19.87	10.74

PS-12200-GS

9.6V	639	512	292	208	154	113	87.3	63.6	41.9	28.6	23.2	12.5	
9.9V	609	487	278	201	151	110	85.2	62.0	40.9	28.1	23.0	12.4	
10.2V	580	464	265	194	147	107	83.1	60.5	39.9	27.5	22.7	12.2	
10.5V	560	451	259	189	145	106	83.6	59.2	39.4	27.3	22.4	12.1	
10.8V	540	437	252	184	142	104	82.4	58.1	39.0	27.0	22.0	11.9	

PS-12260-GS12V26Ah

10.20	1048	755	612	345	252	191.6	146.9	110.5	78.89	52.00	36.62	29.64	15.96
10.50	1004	731	593	338	246	188.5	144.8	109.0	77.11	51.41	36.33	29.19	15.73
10.80	952	703	574	328	240	185.4	142.6	107.4	75.77	50.81	35.95	28.70	15.51

PS-12350-GS12V35Ah

10.20	1093	926	672	418	314	273	199	150	112	72.1	53.4	45.4	23.8
10.50	1052	786	603	409	307	269	196	145	108	69.9	52.8	44.0	23.1
10.80	978	734	576	400	297	256	188	140	105	67.4	52.0	41.9	22.5

GEL Batteries
40, 55, 60, 65, 75 AH

Features

- >> Designed floating charging service life: 12 years (25ºC)
- >> Safety valve installation for explosion proof ,Sealed and maintenance free operation
- >> By using strong grids, high purity lead and patented Gel electrolyte
- >> Extremely low self-discharge characteristic
- >> Wide operating temperature range from -20ºC~55ºC
- >> Lead Aluminum calcium Tin alloy high energy, prevent corrosion
- >>Maximum dischage current : Ampere X 10 for 5 Seconds

Constant Current Discharge Datasheet (Watt at 25ºC)

End Voltage (V)	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
PS-12400-GS12V40Ah													
10.20	1223	1036	752	468	352	305.5	223.2	167.7	125.5	80.65	59.76	50.82	26.62
10.50	1177	879	675	458	344	301.4	219.1	162.5	121.4	78.18	59.04	49.27	25.80
10.80	1094	821	645	447	332	287.0	209.8	156.4	117.3	75.40	58.22	46.91	25.21
PS-12550-GS12V55Ah													
10.20	1722	1458	1058	659	495	430	314	236	176	114	84.2	71.5	37.46
10.50	1656	1238	950	644	484	424	309	228	170	110	83.1	69.3	36.30
10.80	1540	1155	907	630	468	404	295	221	164	106	82.0	66.0	35.48
PS-12600-GS12V60Ah													
10.20	1871	1584	1150	716	538	467	341	257	191	123	91.5	77.7	40.7
10.50	1799	1345	1033	700	526	461	336	248	185	120	90.3	75.3	39.4
10.80	1673	1255	986	684	508	439	320	240	178	115	89.1	71.7	38.5
PS-12650-GS12V65Ah													
10.20	2191	1855	1347	839	630	547	399	300	224	144	107	91.0	47.7
10.50	2107	1575	1209	819	616	539	393	291	217	140	106	88.2	46.2
10.80	1960	1470	1154	802	595	515	375	281	209	135	104	84.0	45.2
PS-12750-GS12V75Ah													
10.20	2254	1908	1385	863	648	563	410	309	230	148	110	93.6	49.1
10.50	2167	1620	1244	842	634	554	404	299	223	144	109	90.7	47.5
10.80	2016	1512	1187	825	612	530	386	289	215	139	107	86.4	46.5

THE CROWN OF POWER SOLUTION

Features

>> Designed floating charging service life: 15 years (25ºC)
>> Safety valve installation for explosion proof ,Sealed and maintenance free operation
>> By using strong grids, high purity lead and patented Gel electrolyte
>> Extremely low self-discharge characteristic
>> Wide operating temperature range from -20ºC~55ºC
>> Lead Aluminum calcium Tin alloy high energy, prevent corrosion
>> Maximum discharge current :Ampere X 10 for 5 Seconds

THE CROWN OF POWER SOLUTION

Application

- DC power supply
- UPS/EPS power supply
- Electrical devices & instruments
- Security and fire alarm systems
- Telecom stations and power stations
- Medical equipments
- Emergency lighting systems

Constant-Voltage Charge

Rated Capacity	
20 hour rate (5.0A)	105.0AH
10 hour rate (10.0A)	100.0AH
5 hour rate (17.0A)	85.0AH
3 hour rate (25.0A)	76.0AH
1 hour rate (60.0A)	60.0AH
Capacity affected by Temperature	
40ºC(104ºF)	103%
25ºC(77ºF)	100%
0ºC(32ºF)	86%

Cycle Application
1. Limit initial current less than 25.0A.
2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25ºC(77ºF).
3. Hold at 14.1V to 14.4V until current drop to under0.60A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/ºC.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 25.0A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.
2. Temperature compensation coefficient of charging voltage is -18mV/ºC.

Battery Discharge Table

End Voltage (V)	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (Amperes at 25ºC)													
10.20	315	240	181	95.9	89.0	62.5	49.4	41.3	25.9	17.99	12.80	10.80	5.65
10.50	280	220	169	92.0	85.0	60.0	47.4	39.8	25.1	17.18	12.10	10.50	5.55
10.80	260	200	158	88.9	81.0	57.5	45.5	38.3	24.2	16.44	11.50	10.20	5.38
Constant Power Discharge Data Sheet (Watt at 25ºC)													
10.20	3130	2650	1907	1198	900	782	570	429	320	206	153	130	68.1
10.50	3010	2250	1712	1171	880	770	562	415	310	200	151	126	66.0
10.80	2800	2100	1635	1145	850	735	536	401	299	193	149	120	64.5

Features

- >> Designed floating charging service life: 15 years (25ºC)
- >> Safety valve installation for explosion proof ,Sealed and maintenance free operation
- >> By using strong grids, high purity lead and patented Gel electrolyte
- >> Extremely low self-discharge characteristic
- >> Wide operating temperature range from -20ºC~55ºC
- >> Lead Aluminum calcium Tin alloy high energy, prevent corrosion

Constant Current Discharge Datasheet (Watt at 25ºC)

PSH-12400-W

F.V/Time	3Min	5Min	8Min	10Min	15Min	20Min	30Min	45Min	60Min	90Min
9.6	4290	3852	3414	2934	2478	1938	1428	1152	900	546
10.02	4116	3708	3288	2838	2400	1896	1404	1140	894	540
10.2	3912	3540	3150	2730	2322	1854	1380	1128	882	534
10.5	3726	3390	3018	2622	2238	1812	1362	1110	876	528
10.8	3534	3228	2892	2526	2160	1776	1344	1098	870	522

PSH-12410-W

F.V/Time	5Min	10Min	15Min	20Min	30Min	60Min	90Min
1.60	658.3	501.9	423.3	331.3	232.8	146.4	92.1
1.67	633.9	485.3	410.0	324.7	229.6	145.3	91.4
1.70	605.1	466.5	396.7	316.9	225.4	143.1	90.3
1.75	579.5	448.7	382.3	310.3	222.2	142.1	89.4
1.80	551.9	432.1	369.0	303.6	219.1	141.1	88.5

PSH-12440-W

End Voltage (V/cell)	min						h							
	5	10	15	20	25	30	45	1	1.5	2	3	5	6	10
1.60	702	548	464	392	340	303	218	171	132	99.5	74.3	47.0	40.0	26.4
1.65	683	532	450	379	330	294	212	165	128	96.6	72.4	45.7	39.4	26.2
1.67	653	521	442	372	322	285	207	163	125	94.2	71.0	44.6	38.8	25.9
1.70	625	510	431	363	316	278	204	159	123	92.6	70.0	44.0	38.2	25.6
1.75	605	495	419	349	305	268	198	154	120	90.7	67.8	43.0	37.5	25.2
1.80	585	475	402	337	294	256	190	148	115	87.6	65.7	41.9	36.6	24.7

Features

>> Designed floating charging service life: 15 years (25ºC)
>> Safety valve installation for explosion proof ,Sealed and maintenance free operation
>> By using strong grids, high purity lead and patented Gel electrolyte
>> Extremely low self-discharge characteristic
>> Wide operating temperature range from -20ºC~55ºC
>> Lead Aluminum calcium Tin alloy high energy, prevent corrosion
>>Maximum Discharge Current : Ampere X 10 for 5 Seconds

THE CROWN OF POWER SOLUTION

Application

- DC power supply
- UPS/EPS power supply
- Electrical devices & instruments
- Security and fire alarm systems
- Telecom stations and power stations
- Medical equipments
- Emergency lighting systems

Constant Current Discharge Datasheet (at 25ºC)

PS-121500-GS12V150Ah

End Voltage (V)	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (Amperes at 25ºC)													
10.20	472	360	271	144	133	93.6	73.9	61.9	38.8	26.95	19.17	15.88	8.03
10.50	419	330	253	138	127	89.9	71.0	59.7	37.5	25.73	18.13	15.58	7.95
10.80	389	300	237	133	121	86.1	68.1	57.3	36.2	24.62	17.23	15.13	7.85
Constant Power Discharge Data Sheet (Watt at 25ºC)													
10.20	4695	3975	2861	1797	1350	1173	855	644	480	310	230	195	102.2
10.50	4515	3375	2568	1756	1320	1155	842	623	465	300	227	189	99.0
10.80	4200	3150	2452	1718	1275	1103	804	602	449	289	224	180	96.8

PS-122000-GS12V200Ah

End Voltage (V)	Minute (M)					Hour (H)							
	5	10	15	30	45	1	1.5	2	3	5	8	10	20
Constant Current Discharge Data Sheet (Amperes at 25ºC)													
10.20	630	480	362	192	178	125	98.6	82.6	51.8	36.0	25.58	20.90	10.70
10.50	560	440	338	184	170	120	94.8	79.6	50.1	34.3	24.18	20.60	10.60
10.80	520	400	316	178	162	115	90.9	76.5	48.3	32.8	22.98	20.18	10.46
Constant Power Discharge Data Sheet (Watt at 25ºC)													
10.20	6260	5300	3815	2396	1800	1564	1141	858	640	413	306	260	136
10.50	6020	4500	3424	2341	1760	1540	1123	830	619	400	302	252	132
10.80	5600	4200	3268	2290	1700	1470	1072	802	598	386	298	240	129

Features

>> Low Self Discharge
>> Excellent performance on deep Cyclic application as compare to AGM VRLA
>> Very High Design & service life
>> Low water loss

C10

Constant Current Discharge Datasheet (WATT at 25ºC)

PS-121500 TI

Cut off Volt	5min	10 min	15 min	30 min	1h	2h	3h	4h	5h	10h	20h
9.60	4850	3600	2850	1600	960	558	414	328	260	154	85
10.20	4290	3200	2700	1530	930	501	393	319	250	153	84
10.50	3787	3110	2620	1490	902	485	378	308	235	151	82
10.80	3220	2750	2510	1400	880	476	365	302	220	147	82

PS-122000-TI

10.25	1569.00	1150.00	865.00	651.00	418.00	312.00	268.00	140.00
10.50	1548.00	1135.00	841.00	625.00	404.00	303.00	260.00	137.00
10.85	1474.00	1081.00	810.00	602.00	391.00	299.00	248.00	133.00

Features

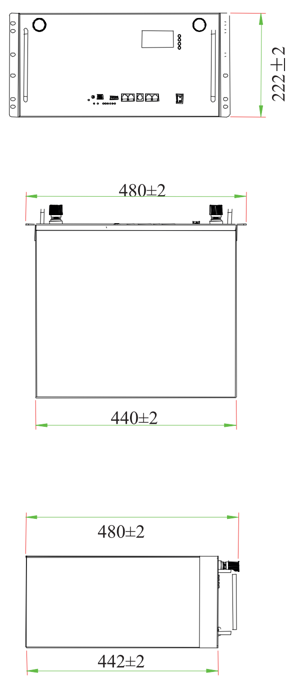
- >> Longer Cycle Life
- >> lighter Weight
- >> Quick Charge
- >> Superior Safety
- >> High Efficient
- >> Max. Parallel applicability: 15 pieces

THE CROWN OF POWER SOLUTION

Specifications

Nominal voltage		48V
Nominal capacity		100Ah
Dimensions	Length	442±2mm (17.40inch)
	Width	480±2mm (18.89inch)
	Height	222±2mm (8.74inch)
	Total height	222±2mm (8.74inch)
Approx. weight		41kg (90.39lbs)±2.5kg

Outer Dimensions(mm)



Characteristics

Electrical Parameters (25°C)	Rated Voltage	51.2V
	Rated Capacity (C_5)	100Ah@25°C
	Energy	5120Wh
	Months Self Discharge	<3%
	Charge Efficiency	99.5%@ 0.2C
	Discharge Efficiency	96-99%@ 1C
Terminal Diameter		M10
Internal resistance (Fully charged, 25°C)		≤150mΩ
Cycle life		>3000 cycles @ 0.2C 100%D.O.D
Capacity affected by temperature	40°C	101%
	25°C	100%
	0°C	90%
	-10°C	75%
Nominal operating temperature		25°C± 3°C (77°F± 5°F)
Operating temperature range	Discharge	- 20°C~ 60°C (-4°F ~ 140°F)
	Charge	0°C~ 45°C (32°F ~ 113°F)
	Storage	0°C~ 40°C (32°F ~ 104°F)
Self heat function		Available
Water Dust Resistance		IP65
Charge Voltage		58.4V
Standard Charge Mode (25°C±2°C, <75%RH)		0.2CA Constant Current to 58.4V, then Constant Voltage 58.4V until the current drops to 0.02CA, before use, rest 30 minutes
Charge Current		20A
Maximum Charge Current		50A
Charge Cut off Voltage		58.4V
Continuous Discharge Current		100A
Maximum Pulse Current		300A (<10ms)
Discharge Cut Off Voltage		46V
Communicate Protocol (optional)		RS485/RS232/CAN
SOC (optional)		Screen/LED/PC Software
Application connection		1 string 1 parallel
Mechanical	Cells	16 Strings
	Container	Metal


POWER SOLID
AUTOMATIC VOLTAGE STABILIZER
PS-S100K3#L
MADE IN VIETNAM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AUTOMATIC VOLTAGE STABILIZER
PS-S5000VA#L


POWER SOLID
AUTOMATIC VOLTAGE STABILIZER
PS-S7500VA#L


POWER SOLID
AUTOMATIC VOLTAGE STABILIZER
PS-S10000VA#L


POWER SOLID
AUTOMATIC VOLTAGE STABILIZER
PS-S20000VA#L

Features

>> Full automatic & fast regulation.
>> Copper to copper connections.
>> High efficiency,lowloss,low rising temperature,and long life span.
>> Safe and economic usage.
>> property ventilated & insulated.
>> Resettabble circuit breaker for over load protection.
>> Full function, graphic LEDdisplay indicator for easy status reading.

Technical Specifications

Model	PS-S1000VA#L	PS-S3000VA#L
Capacity	1000	3000
Input		
Voltage	90V ~ 250V	
Operation Frequency	49Hz ~62Hz	
Output		
Output Voltage	220 - 110V(100V)±2~3%	
Output Protection	OVERLOAD PROTECTION	
Overload Protection	20%	
Working Principle	DC SERVO MOTOR WITH PCB, FULL AUTOMATIK	
General		
Body Material	METAL	
Measure Value Monitor	DIGITAL VOLTMETTER AND AMPEMETER	
Total Efficiency	98%	
Protection Lever	IP20 / IP25	
Insulation Resistance	≥ 3MΩ	
Dielectric Strength	TESTED AT 2000VAC / 1MIN	
Response Time Against 10% Input Voltage Deviation	0,4s~ 1s(500VA ~ 10,000VA)	
Environmental		
Working Temperature	-5°C ~50°C	
Storage Temperature	-10°C~ 60°	
Relative Humidity	<90% DIN (40040)	
Working Altitude	<2000M	
Document	IEC/TCVN (ISO 9001)	
Dimension (L x W x H) (mm)	237 × 183 × 200	305 x 220 x 305
Weight (kg)	7.0	12.0

Features

- >> Full automatic & fast regulation.
- >> Copper to copper connections.
- >> High efficiency,lowloss,low rising temperature,and long life span.
- >> Safe and economic usage.
- >> property ventilated & insulated.
- >> Resettabble circuit breaker for over load protection.
- >> Full function, graphic LEDdisplay indicator for easy status reading

Technical Specifications

Model	PS-S5000VA#L	PS-S7500VA#L
Capacity	5000	7500
Input		
Voltage	90V ~ 250V	
Operation Frequency	49Hz ~ 62Hz	
Output		
Output Voltage	220V - 110V (100) ± 2 ~ 3%	
Output Protection	OVERLOAD PROTECTION	
Overload Protection	20%	
Working Principle	DC SERVO MOTOR WITH PCB,FULL AUTOMATIC	
General		
Body Material	METAL	
Measure Value Monitor	DIGITAL VOLTMETTER AND AMPEMETER	
Total Efficiency	98%	
Protection Lever	IP 20 / IP25	
Insulation Resistance	≥ 3 MΩ	
Dielectric Strength	TESTVD AT 2000 VAC / 1MIN	
Response Time Against 10% Input Voltage Deviation	0,4s ~ 1s (500VA ~ 10.000VA)	
Environmental		
Working Temperature	-5°C ~ 50°C	
Storage Temperature	-10°C ~ 60°C	
Relative Humidity	<90% DIN (40040)	
Working Altitude	<2000M	
Document	IEC / TCVN (ISO 9001)	
Dimension (L x W x H) (mm)	305 × 220 × 305	415 x 240 x 355
Weight (kg)	15.0	26.0

THE CROWN OF POWER SOLUTION

Features

>> Full automatic & fast regulation.
>> Copper to copper connections.
>> High efficiency,lowloss,low rising temperature,and long life span.
>> Safe and economic usage.
>> property ventilated & insulated.
>> Resettable circuit breaker for over load protection.
>> Full function, graphic LEDdisplay indicator for easy status reading

THE CROWN OF POWER SOLUTION

Technical Specifications

Model	PS-S10000VA#L	PS-S20000VA#L
Capacity	10000	20000
Input		
Voltage	90V ~ 250V	
Operation Frequency	49Hz ~ 62Hz	
Output		
Output Voltage	220V -110V (100V)± 2 ~ 3%	
Output Protection	0VERLOAD PROTECTION	
Overload Protection	20%	
Working Principle	DC SERV0 MOTOR WITH PCB, FULL AUTOMATIC	
General		
Body Material	METAL	
Measure Value Monitor	DIGITAL VOLTMETTER AND AMPEMETER	
Total Efficiency	98%	
Protection Lever	IP 20 /IP25	
Insulation Resistance	≥3MΩ	
Dielectric Strength	TESTD AT 2000VAC /1MIN	
Response Time Against 10% Input Voltage Deviation	0,4s ~ 1s (500 ~10,000VA)	
Environmental		
Working Temperature	-5° C ~ 50°C	
Storage Temperature	-10°C -60°C	
Relative Humidity	<90% DIN (40040)	
Working Altitude	< 2000M	
Document	IEC / TCVN (ISO 9001)	
Dimension (L x W x H) (mm)	415 × 240 × 355	700 x 480 x 660
Weight (kg)	30.2	83

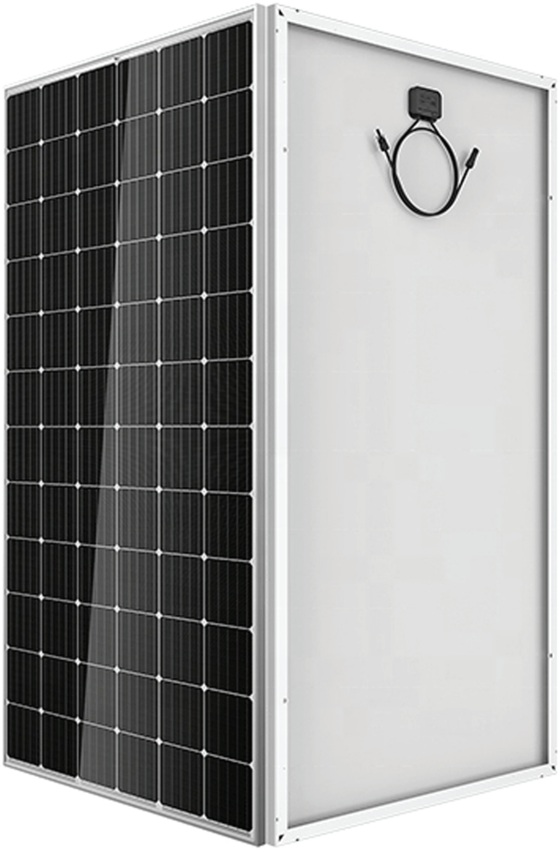
Features

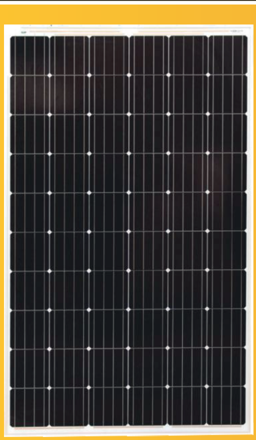
>> Copper to Copper connections
>> Properly Ventilated & Insulated
>> Enclosures Rigid Enclosures
>> Resettable circuit breaker for overload protection
>> Input >> Output Voltage switching selector to check the Input or Output Voltage easily
>> High Efficiency, low loss, low rising temperature, and long lifespan
>> Safe and economic usage
>> Fast Regulation

Technical Specifications

TYPE	PS-S100K3#L
REGULATOR INPUT	
INPUT	160V ~ 430V
49Hz ~ 62Hz	49Hz ~ 62Hz
REGULATOR OUTPUT	
OUTPUT VOLTAGE	380V + 2 ~ 3%
OUTPUT PROTECTION	OVERLOAD PROTECTION
OVERLOAD PROTECTION	20%
WORKING PRINCIPLE	DC SERVO MOTOR WITH PCB, FULL AUTOMATIC
GENERAL	
BODY MATERIAL	METAL
MEASURE VALUE MONITOR	ANALOGUE VOLTMETER AND AMPEMETER
TOTAL EFFICIENCY	98%
PROTECTION LEVER	IP 20 / IP25
INSULATION RESITANCE	> 5MΩ
DIELECTRIC STRENGTH	TESTED AT 2000VAC / 1MIN
RESPONSE TIME AGAINST 10% INPUT VOLTAGE DEVIATION	1s ~ 3s (> 30.000VA)
ENVIRONMENTAL	
WORKING TEMPERATURE	-5 °C ~ +50 °C
STORAGE TEMPERATURE	-10 °C ~ +60 °C
STORAGE TEMPERATURE	<90% DIN (40040)
WORKING ALTITUDE	< 2000M
Weight (kg)	389
DIMENSION (LxWxH)	820 x 710 x 1635mm

THE CROWN OF POWER SOLUTION





Features

>>Tempered and high transparent low-iron glass
directs more light on the solar cells, resulting in a higheren ergy yield

>>Excellent low-light performance
produces energy even at low light levels, especially in the morning, evening and winter season.

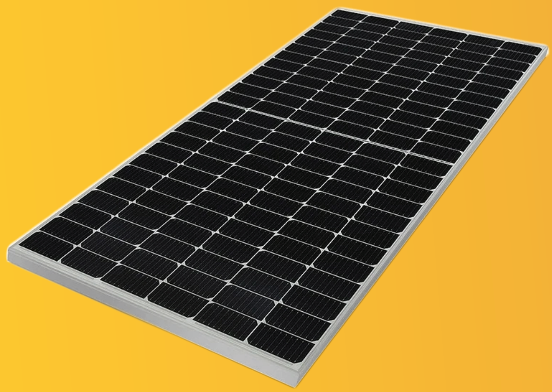
>>Special and advanced module sealing technology
to avoid leakage and frame deformation.

>>Well-suited module size
for almost all PV applications.

Technical Specifications

Product Info			
Model			PS200W#VPVS
Solar Cell Number			48 PCS
Solar Cell size (cm)			100 x 135
Wattage			200W
Silicon Type			M : Monocrystalline
Electrical Parameters at standard Test conditions (STC)			
Module Type			
Power Output	P_{max}	W	200W
Power Output Tolerances	ΔP_{max}	W	0/+5
Module Efficiency	η_m	%	18.3
Voltage at P max	V_{mp}	V	24.12
Current at P max	I_{mp}	A	8.29
Open Circuit Voltage	V_{oc}	V	29.67
Short circuit current	I_{sc}	A	8.87
Thermal characteristics			
Nominal operating cell type	NOCT	°C	46+/-2
Temperature coefficient of		%/°C	-0.42
Temperature coefficient of	β_{voc}	%/°C	-0.32
Temperature coefficient of	α_{Isc}	%/°C	-0.05
Temperature coefficient of	β_{vmpp}	%/°C	-0.42
Operating conditions			
Max system voltage			1000VDC
Max series fuse rating			15A
Limiting reverse current			15A
Operating temperature range			-40 °C to 85 °C
Max static load front (e.g.snow)			5400Pa
Max static load front (e.g.wind)			2400Pa
Max hailstone impact (diameter / velocity)			25mm/23m/s
Construction Materials			
Front cover (Material / Thickness)			low-iron tempered glass/4.0mm
Cell (quantity/material/dimensions/number of busbars)			48/ multi crystalline silicon /1 56mmx1 56mm 4 or 5
Frame (material/color/anodization/color/edge sealing)			anodized aluminum alloy/silver/clear /silicone or tape
Junction box (protection degree)			≥IP65
Cable (length/cross-sectional area)			1100mm/4mm^2
Plug connector (type/protection degree)			MC4/IP 67 orYT08-1/IP67 or Amphenol H4/IP68
Dimensions(L/W/H)			1 3 50mm/ 9 9 2mm/40mm
Weight			15kg

THE CROWN OF POWER SOLUTION



Features

>> Multi Busbar Technology.
>> Higher Output Power.
>> Low light performance.
>> Better resistance to hot spots.
>> Adaptability to harsh environment

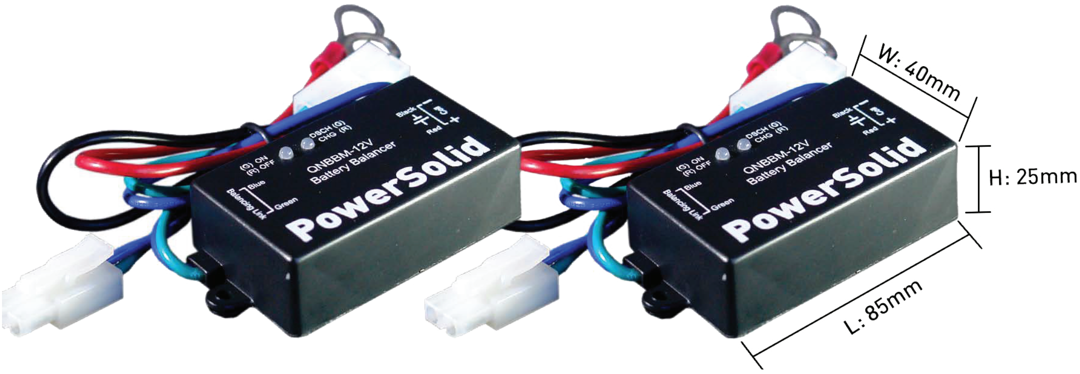
THE CROWN OF POWER SOLUTION

Technical Specifications

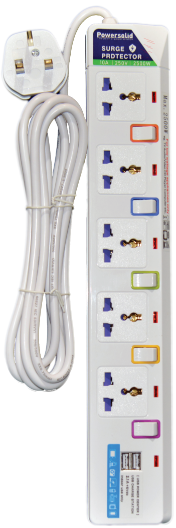
Model	PS450W#PVPS
Specifications	
Solar Cell (Type/Size)	MONO (182mm)
Solar Cells Number	120pcs (6*20)
Dimensions	1909*1134*35mm
Weight	23.9kg/pcs
Structure	3.2 Glass+ EVA film+Back
Frame	Anodized Aluminum Alloy
Junction Box	IP68 3*Bypass Diode
Cable Cross Section Size	4.0mm2, (+)300mm/ (-)
Mechanical Load	400mmFront 5400 Pa/Back
Packing Number	2400 Pa
Packing Volume	31pcs/pallet
40'HQ Container	2.834Cbm/pallet 744pcs
Electrical Parameters at STC	
Rate Maximum Power (Pmax/W)	450
Module Efficiency (%)	21.16%
Open Circuit Voltage(Voc/V)	49.30V（±3%）
Short Circuit Current(Isc/A)	11.60A（±3%）
Voltage at Pmax (Vmp/V)	41.50V
Current at Pmax(Imp/A)	10.85A
Power Tolerance	Up to 3%
Temperature Coefficient of Isc	+0.05%°C
Temperature Coefficient of Voe	-0.27%°C
Temperature Coefficient of Pmax	-0.35%°C
Electrical Parameters at NOTC	
Rate Maximum power (Pmax/W)	340
Open Circuit Voltage (Voc/V)	38.65
Short Circuit Current (Isc/A)	11.08
Voltage at Pmax (Vmp/V)	32.51
Current at Pmax(Imp/A)	10.46
Operating Conditions	
Operating Temperature	-40~+85°C
Maximum System Voltage	1500VDC
NOCT	45±2°C
Fireproof Performance	Glass C
20A	20A
Temperature Coefficient of Voc	-0.276%/K
Temperature Coefficient of Isc	+0.046%/K

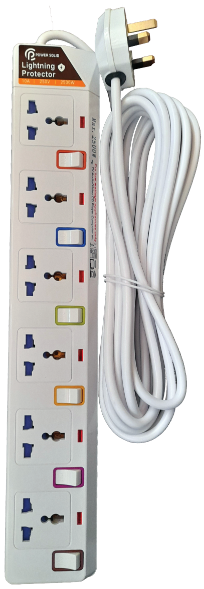
MPPT Solar Charge Controller

Battery Balancer



Power Strips





Features

>> Industrial-grade Micro Processor Control
>> 12V,24V and 48V can be adaptive
>> Built-in maximum power point tracking algorithm,the charging efficiency is 15%-20% higher than PWM mode
>> With the charging over current protection function ,the controller will automatic reduce the chargr current
>> With the Solar reverse polarity protection
>> With the Over temperature protection
>> Wall hanging case
>> Application for off-grid solar power system

Technical Specifications

MODEL	PSc30A#12-48VPVS
P.V.Input Features	
Input P.V.Range(Vdc)	165 VDC MAX
Solar Charge Current (A)	30 A MAX
Solar Charging Features	
Normal Battery Voltage (Vdc)	12/24/48VDC
Battery Type Choose	Gel/Sealed/ other (User-defined)
Fast Charge Voltage (Vdc)	14.0V; X2/24V; X4/48V other (User-defined)
Float Charge Voltage (Vdc)	13.8V; X2/24V; X4/48V other (User- defined)
Overcharge Alarm Voltage (Vdc)	15.00V; X2/24V; X4/48V other (User- defined)
Overcharge Recovery Voltage (Vdc)	13.6V; X2/24V; X4/48 other (User- defined)
DC Output Features	
DC Output Current (A)	30A MAX
Over discharge Alarm Voltage (Vdc)	11.0V/11. 0V*2/11.0V*4
Over discharge Protection Voltage (Vdc)	10.8V /10.8V*2/10.8V*4
Over discharge Recovery Voltage (Vdc)	13.2V/13.2V*2/13.2V*4
PROTECTION	
Protection	Overcharge Protection, Over discharge Protection Solar reverse Polarity Protection, Overtemperature Protection
Display Features	
Display method	LED+LCD
Display substance	PV status, Battery status, DC Output status, fault status
AMBIENT	
Noise(dB)	<55dB (1 meter)
Working Temperature	-20°C ~50°C
Humidity	0~95% (no condensation)
Sea Level (m)	≤1500
DIMENSION	
L x W x H (Products size) mm	L205*W167*H93.5mm
L x W x H (Package size) mm	L640*W565&H305mm
Weight (NW Kg)	2.1kg

MPPT Solar Controller

60A

Features

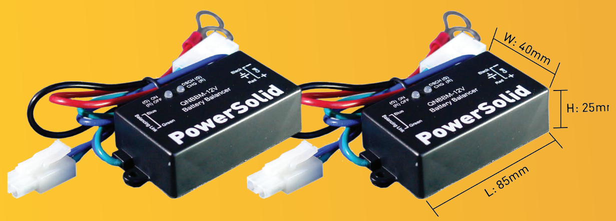
- >> LCD display , easy to operate on LCD screen
- >> Multi stage charging (3-stage charging , parallel charging and equalized charging function)
- >> BTS - Battery remote temperature sensor terminal
- >> Enable to charge Li-thium, Gel , lead-acid battery
- >> With RS485 & USB communication port
- >> Protection: PV array short circuit, PV reverse polarity, Battery reverse polarity, Over charging, Output short circuit

Technical Specifications

MODEL	PSc60A#12-48VPVM	
Nominal Battery System Voltage	12V\24V\48VDC (Auto detection); 36V (Setting)	
CONTROLLER INPUT		
Battery Voltage	12V	24V
Maximum Solar Input Voltage	100V	145V
PV Array MPPT Voltage Range	15~95V	30~130V
Maximum Input Power	12 Volt-940W 24 Volt-1880W 36 Volt-2820W 48 Volt-3760W	
BATTERY		
Charging Set Points	Absorption Stage	
Flooded Battery	14.2V \ 28.4V \ 42.6V \ 56.8V	
AGM (Default)	14.4V \ 28.8V \ 43.2V \ 57.6V	
Over-charging Voltage	15.5V \ 30.0V \ 45.0V \ 60.0V	
Over-charging Comeback Voltage	14.5V \ 29.5V \ 44.5V \ 59.0V	
Battery Defect Voltage	10.0V \ 17.0V \ 25.5V \ 34.0V	
Temperature Compensation Coefficient	-5mv \ °C \cell (25°Cvef)	
Peak Conversion Efficiency	98% (MPPT Efficiency 99%)	
Maximum Battery Current	60Amps	
Max Charging Current	60amps continuous @ 40°C ambient	
GENERAL SPECIFICATION		
Radiating Mode	Fan cooling	
DISPLAY & PROTECTION	Solar high voltage disconnects Solar high voltage reconnect Battery high voltage disconnect Battery high voltage reconnect High temperature disconnect High temperature reconnect	
MECHANICAL SPECIFICATIONS		
Mounting	Wall mount	
Machine Dimension (W*H*D)	152*85*294 mm (per pcs)	
G.W (kg)	3kg/pcs	
Package Dimension (W*H*D)	625*366*232 mm (4pcs / Carton)	
Gross Weight (kg)	14kg	
OTHER		
Environmental Rating	Indoor	
Operation Temperature Range	-10~55°C	
Ambient Humidity	0~90% relative humidity (non-condensing)	
Altitude	≤3000m	

THE CROWN OF POWER SOLUTION

Features

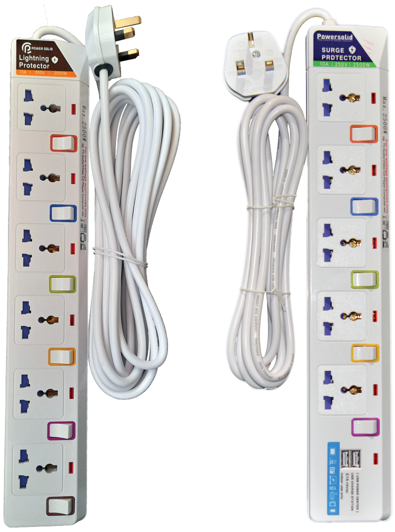


>> Improve Battery Safety.
>> More balance's , Less battery pollution. Protect environment, start from using balance's
>> Prolong Battery Lifespan 2~3 times.
>> Waterproof, Dust proof, Fire proof, Shockproof, Explosion-proof, Antistatic

THE CROWN OF POWER SOLUTION

Technical Specifications

Battery Capacity Limited	Unlimited
Battery Count Limited	2S ~ Unlimited At least balance 2 Cells
Battery Type limited	Battery: Lifepo4, LiMn04 etc. AGM, Gel, Flooded Battery and so on
Working Voltage	1.8V~5V (2V lead acid battery and lithium battery) 4V ~9V (6V lead acid battery) 9V ~15V (12V lead acid/Li battery)
Power Consumption	<50mW per 1s
Balance Method	Energy transfer & Dynamic
Voltage Differences VS Balance current	300mV-1; 1V-3A
Voltage Difference after using the equalizer	<10mv <30mv (12V lead acid)
Working efficiency when balance current is 1A	>94%
Working Temperature	-40 ~ +100°C
BMS Limited	Can work with BMS or Can work independently



Technical Specifications

Rated power: 2500W
Rated Current: 10A
Rated Voltage: 250V
Plastic Material: ABS
Extra Function: Lightning Protector
Power Cable: 100% Copper Wire
Cable Diameter: 3*0.75mm2
Cable Length: 5meter
Packing: Blister Card Packing
Socket Application: Home, Office, Travel
Max USB current : 2.1A (In 5outlet Power Strip)
Max USB Voltage: 5V (In 5outlet Power Strip)

Technical Specifications

Function: flame retardancy, insulation, stability
Conductor Material: Phosphor Bronze
Plugging times: ＞10000 times
Rated power: 3000W
Housing material: aluminum alloy
Dimensions: 1.5U 19-inch standard cabinet installation
Wire material: 3*1.5 square
Wire length: 1.8 meters
Function: double-break switch + lightning protection module
Number of sockets: 7 & 6 way
Socket: 10A Universal type & Europe
Rated current: 13A
Rated working voltage: 220-250V 50-60Hz
Plug: UK type

Technical Specifications

Rated voltage: 4Port 10A250V.
Total Output 2500W Max.
Insulation resistance: ≥ 5M
Dielectric strength: AC/min ≥ 2000V
Conductor Material: Full Copper