



PORTABLE SOLAR POWER SYSTEM

-- PSS Series (150W~1000W)



KEY FEATURES

- ★ MPPT Solar Charger Controller with efficiency >99%
- ★ Power 300% surge power
- ★ High Charge Current, 3 stage battery charger
- ★ Pure Sine Wave with low harmonic distortion
- ★ CRGO toroidal transformer, lower static loss, higher efficiency
- ★ 32 bit high speed CPU control with accurate detection
- ★ Auto switch between AC and PV.
- ★ Integrated design with built-in batteries, portable and easy to install.



SYSTEM DIAGRAM:



CRGO Toroidal Transformer



32bit High Speed CPU Control

PRODUCT PICTURES:



TYPICAL APPLICATIONS:

MODEL NO.	CAPACITY	RATED POWER	TYPICAL APPLICATIONS
PSS-300	300VA	150W	Lightings, Fan, LED TV, Laptop
PSS-500	500VA	300W	Lightings, Fan, LED TV, Laptop, electric cooker
PSS-800	800VA	500W	Lightings, Fan, LED TV, Laptop, electric cooker, fridge
PSS-1500	1500VA	1000W	Lightings, Fan, LED TV, Laptop, electric cooker, fridge



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TECHNICAL SPECIFICATIONS

MODEL NO.		PSS-300	PSS-500	PSS-800	PSS-1500	
SYSTEM	System Capacity	300VA	500VA	800VA	1500VA	
	Rated Power	150W	300W	500W	1000W	
	Battery Bank Voltage	12V			24V	
	Full Charge Time	6hrs	6hrs	5hrs	5hrs	
	Discharge Time (normal load)	12hrs				
	Discharge Time (full load)	3hrs				
	DC Output	12Vdcx1Ax4+5V USBx2Ax2				
AC Output	AC Socketsx2/ 50Hz or 60Hz/ Voltage optional at 100~240Vac					
SOLAR PV	Voltage/Power	18V/90Wpx1pcs	18V/180Wpx1pcs	18V/150Wpx2pcs	36V/300Wpx2pcs	
	Type	High efficiency polycrystalline PV/ monocrystalline optional				
BATTERY	Voltage/Capacity	12V/40Ahx1pcs	12V/80Ahx1pcs	12V/120Ahx1pcs	12V/120Ahx2pcs	
	Type	Maintenance-free lead-acid battery/ Gel batteries optional				
	Battery Cabinet	Integrated battery cabinet, portable with wheels				
SOLAR CHARGER	Input Vol. Rage	15~50Vdc			30~50Vdc	
	Max. Charge Current	10A	20A	30A	30A	
	Controller Efficiency	99%				
	Type	MPPT- Max Power Point Tracking				
INVERTER	Rated Power	300VA/ 150W	500VA/300W	800VA/ 500W	1500VA/ 1000W	
	Transformer	CRGO Toroidal Transformer				
	Displayer	LED Graphic Displayer with working/ loading/ battery status				
	DC Output	12Vdcx1Ax4+5V USBx2Ax2				
	AC Output	Voltage	Customized at 100~240Vac±1% depends on the main power			
		Frequency	50/60Hz±0.3Hz self adaptive			
		Wave Form	Pure Sine Wave			
		Wave Distortion	<3%			
AC Iutput	Voltage	140~275 Vac				
	Frequency	45~65 Hz				
PROTECTION	Overload, high temperature, output high/low voltage,short circuit, over-charge, over-discharge					
PV~AC TRANSFER TIME	Typical at 4ms, Max within 6ms					
COOLING SYSTEM	Fans					
WORKING TEMPERATURE	0~40 °C					
WORKING HUMIDITY	10~90% RH, non-condensing					

CUSTOMIZED OPTIONALS:

- ★ Monocrystalline solar panel available as optional.
- ★ Solar PV power and battery capacity can be customized depends on requirements.
- ★ Customized sockets and output voltage available depends on market requirements.

PORTABLE SOLAR POWER SYSTEM

-- PSS Series (2KW~5KW)

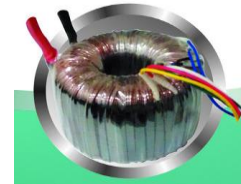


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SYSTEM DIAGRAM:



CRGO Toroidal Transformer



32bit High Speed CPU Control

PRODUCT PICTURES:



TYPICAL APPLICATIONS:

MODEL NO.	CAPACITY	RATED POWER	TYPICAL APPLICATIONS
PSS-3000	3000VA	2kW	Lightings, Fan, LED TV, Laptop, electric cooker, fridge, induction cooker
PSS-5000	5000VA	3kW	Lightings, Fan, LED TV, Laptop, electric cooker, fridge, induction cooker, AC
PSS-6000	6000VA	4kW	Lightings, Fan, LED TV, Laptop, electric cooker, fridge, induction cooker, AC
PSS-8000	8000VA	5kW	Lightings, Fan, LED TV, Laptop, electric cooker, fridge, induction cooker, AC



PORTABLE SOLAR POWER SYSTEM

-- PSS Series (2KW~5KW)



TECHNICAL SPECIFICATIONS

MODEL NO.		PSS-3000	PSS-5000	PSS-6000	PSS-8000	
SYSTEM	System Capacity	3000VA	5000VA	6000VA	8000VA	
	Rated Power	2kW	3kW	4kW	5kW	
	Battery Bank Voltage	48Vdc				
	Full Charge Time	5hrs				
	Discharge Time (normal load)	12hrs				
	Discharge Time (full load)	3hrs				
	DC Output	12Vdcx1Ax4+5V USBx2Ax2				
	AC Output	AC Socketsx2/ 50Hz or 60Hz/ Voltage optional at 100~240Vac				
SOLAR PV	Voltage/Power	36V/300Wpx4pcs	36V/200Wpx8pcs	36V/300Wpx8pcs	36V/200Wpx16pcs	
	Type	High efficiency polycrystalline PV/ monocrystalline optional				
BATTERY	Voltage/Capacity	12V/120Ahx4pcs	12V/180Ahx4pcs	12V/250Ahx4pcs	12V/150Ahx8pcs	
	Type	Maintenance-free lead-acid battery/ Gel batteries optional				
	Battery Cabinet	Stand alone battery cabinet, portable with wheels				
SOLAR CHARGER	Input Vol. Rage	60~100Vdc				
	Max. Charge Current	40A	60A	60A	80A	
	Controller Efficiency	99%				
	Type	MPPT- Max Power Point Tracking				
INVERTER	Rated Power	3000VA/ 2kW	5000VA/ 3kW	6000VA/ 4kW	8000VA/ 5kW	
	Transformer	CRGO Toroidal Transformer				
	Displayer	LED Graphic Displayer with working/ loading/ battery status				
	DC Output	12Vdcx1Ax4+5V USBx2Ax2				
	AC Output	Voltage	Customized at 100~240Vac±1% depends on the main power			
		Frequency	50/60Hz±0.3Hz self adaptive			
		Wave Form	Pure Sine Wave			
		Wave Distortion	<3%			
	AC Iutput	Voltage	140~275 Vac			
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