



An ISO 9001, OHSAS 18001 Certified

**Submersible
Pump Can Run**

PWM Solar PCU

In the field of Inverter Technology, Sun Garner Energies Present exclusive Series of Sine Wave Home UPS & Static Inverter.

This is the result of mutual degree of agreement among the enthusiastic and professional technocrats of Sungarner Team of individual domain to match the international standard of manufacturing to develop Reliable, trouble free, principally high standard of products. Class of Quality and testing procedures ensures that all our inverter and UPS performs even when subject to critical Conditions.

Sungarner system offers stability both in voltage & frequency, henceforth power harnessed from the system is nearest to the truth value, especially for inductive load.

Highlights

- Selectable battery charging current (High /Low).
- Resettable A.C. Fuse.
- State of the art MOSFET based PWM technology with greater efficiency at lower cost with Dynamic Stability
- Over Temperature Protection
- Three stage solar charging (TSSC) suitable for all types of battery charging ..
- Deep Discharge Battery charging from A.C. Mains.
- Grid charging enable /disable options which makes it fully compatible with solar.
- Protection such as Mains Fuse Trip, Overload, Short Circuit, Battery low, Over Temperature indication with buzzer as well as display on LCD available.
- Battery Equalizer inside to increase battery life & backup
- Soft start technology
- Cold start technology
- ATC (automatic temperature compensation technology)
- Charging Ampere adjustable (0,5,10 & 15 Amp) in inverter
- AC Mains available, battery charging /charged and its voltage indication provided on LCD display.
- Battery type charging selection (Tubular /Flat /SMF/GEL).
- DSP Based Design with absolute and stable Sine Wave output voltage and frequency
- Resettable AC circuit breaker which reduce service calls.
- Selectable mode for UPS/Inverter.
- More back-up being a Sine Wave UPS (ASIC Control)
- External DC fuse for reverse battery protection.
- Bypass switch in case of any fault.

Applications

- ➔ Power back up for domestic and small scale set up such as shop, offices etc.
- ➔ Compatible to serve household loads including small water pumps



1100VA | 1500VA | 2100VA | 2500VA | 3KVA | 3.5KVA | 5KVA | 7.5KVA | 10KVA

www.seltrik.com
www.sungarner.com

Technical Specifications

PWM Solar PCU

Model No.								SK1112P	SK1724P	SK2124P	SK2524P	SK3024P	SK3548P	SK5048P	
Ratings								1100VA	1750VA	2100VA	2500VA/24V	3000VA/24V	3500VA/48V	5000VA/48V	
Nominal DC								12V	24V						48V
Switching Element								MOSFET							
Controller								DSP IC 32 BIT							
Max. Battery Capacity								220AH							
Charging Mode								Priority(Grid/Solar)							
Solar Parameters															
Solar Input Range (PWM)								17V-35V	35V-60V				70V-120V		
For Max Current								30A		50A	60A		50A	60A	
Inverter Parameters															
Output Voltage								220V \pm 8%, 1 ϕ							
Output Frequency								50Hz \pm 1							
Max Load (\pm 5%)								800W BULB LOAD	1200W BULB LOAD	1600W BULB LOAD	8A	9.5A	10.5A	16A	
Isolation Transformer								Provided Inbuilt							
Crest Factor								03:01							
Output Waveform								Pure Sinusoidal							
THD (Linear Load)								< 3%							
THD (Non-Linear Load)								< 5%							
Overload								>100%,15 Second							
Inverter Efficiency								>85%							
Changeover Time	inverter to Mains							< 10ms							
	Mains to inverter							< 12ms							
Protections & Alarm								Over and under voltage Grid, Overload, Battery Low & High, Short Circuit, Over Temperature					Over and under voltage Grid, Overload, Battery Low & High, Short Circuit, Over Temperature		
Grid Input Parameters(UPS MODE) IT Load															
Input Low Cut Voltage								180V \pm 5V							
Input Low Recovery Voltage								> 190V \pm 5V							
Input High Cut Voltage								260V \pm 5V							
Input High Recovery Voltage								< 250V \pm 5V							
Grid Input Parameters(Inverter MODE)															
Input Low Cut Voltage								90V \pm 5V				120V \pm 5V			
Input Low Recovery Voltage								> 100V \pm 5V				> 130V \pm 5V			
Input High Cut Voltage								290V \pm 5V				270V \pm 5V			
Input High Recovery Voltage								< 280V \pm 5V				< 260V \pm 5V			
Input Frequency Range								47Hz - 53Hz							
Battery Charging by Grid								Disable, 5A,10A(Default),15A							
Battery Parameters															
Battery Low Buzzer								10.7V \pm 0.2V Per Battery							
Battery Low Cut								10.5V \pm 0.2V Per Battery							
Battery Flot								13.5V \pm 0.2V Per Battery							
Battery Boost								14.5V \pm 0.2V Per Battery							
Grid Charging Voltage (Equalize)								15.5V \pm 0.2V Per Battery(After 30 Days)							
Protection								Overload, Battery Low, Battery High, Output Short Ckt., Battery Reverse ,Over Heat @90°C + 10°C , Over/Under Frequency, I/P Hi, I/P Low, SPV High.							
Display Parameters								LCD display for Input Voltage, Frequency, Battery - Voltage & Current,Load %, Solar -Voltage & Current & Power ,Temperature							
Display Alarms Protection								Output load Percentage, Grid - On / Fail / High / Low, Battery - Low Pre-alarm / Low Trip , Inverter - On / OFF, Overload Trip, Temperature							
Enclosure								IP 20							
Operating Temp.								0 to 40 Deg C							
Humidity								Up to 95% Rh (non-condensing)							
Cooling								Forced Air							
Noise								< 55 dB, distance 1 meter							
Dimensions in mm (L X W X H)								325X165X320	345x328x230		345x335x230		600x350x482	700x350x520	
Weight (Approx. Kgs.)								9 Kgs	12.5 Kgs	16.5 Kgs	19.5 Kgs	22 Kgs	29 Kgs	45 Kgs	
Bypass Switch								Relay							
Wheels								Not Provided					Provided		

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