



## BIS Certified Inverters

An ISO 9001, OHSAS 18001 Certified

**Submersible  
Pump Can Run**

## PWM Solar PCU Lead Acid & Lithium-ion Battery Supported

In the field of Inverter Technology, SunGarner 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 (not applicable for Lithium-ion Battery)
- Soft start technology
- Cold start technology
- ATC (automatic temperature compensation technology)
- Grid charging through multiple settings (0,5,10 & Amp)
- AC Mains available, battery charging /charged and its voltage indication provided on LCD display.
- 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 Inverter (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 | 1750VA | 2100VA | 2500VA | 3000VA**

www.seltrik.com  
www.sungarner.com

# Technical Specifications

## PWM Solar PCU Lead Acid & Lithium-ion Battery Supported

Model No. (Lead Acid)		SK1112P	SK1724P	SK2124P	SK2524P	SK3024P
Model No. (LITHIUM-ION BATTERY)		SKL1112P	SKL1724P	SKL2124P	SKL2524P	SKL3024P
Ratings		1100VA	1750VA	2100VA	2500VA	3000VA
ONLY For Lithium-ion ( No. of Cells)		4S	8S			
Nominal DC(Lead Acid /Lithium-ion)		12V/12.8V	24V/25.6V			
Switching Element		MOSFET				
Controller		DSP IC 32 BIT				
Charging Mode		Priority( Grid/Solar)				
Solar Parameters						
PWM		17V-30V	32V-60V			
For Max Current (MPPT)		50A			60A	
Battery Charging by Solar		20A				
Inverter Parameters						
Output Voltage		220V ± 8%, 1ϕ				
Output Frequency		50Hz ± 1				
Max Load (±5%)		800W BULB LOAD	1200W BULB LOAD	1600W BULB LOAD	8A	9.5A
Isolation Transformer		Provided Inbuilt				
Crest Factor		03:01				
Output Waveform		Pure Sine Wave				
THD (Linear Load)		< 3%				
THD (Non-Linear Load)		< 5%				
Overload		>100%,15 Second				
Inverter Efficiency		>85%				
Change over Time	Inverter to Mains	< 10ms				
	Mains to Inverter	< 12ms				
Protections & Alarm		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 ± 5V				
Input Low Recovery Voltage		> 190V ± 5V				
Input High Cut Voltage		260V ± 5V				
Input High Recovery Voltage		< 250V ± 5V				
Grid Input Parameters(Inverter MODE)						
Input Low Cut Voltage		90V ± 5V				
Input Low Recovery Voltage		> 100V ± 5V				
Input High Cut Voltage		290V ± 5V				
Input High Recovery Voltage		< 280V ± 5V				
Input Frequency Range		47Hz - 53Hz				
Battery Charging by Grid		Disable, 5A,10A(Default),15A (Sateable)				
Battery Parameters						
Battery Type		Lead Acid Battery			Lithium-ion Battery	
Battery Low Buzzer		10.7V ± 0.2V Per Battery			2.95V Per Cell	
Battery Low Cut		10.5V ± 0.2V Per Battery			2.9V Per Cell	
Battery Flot		13.5V ± 0.2V Per Battery			N/A	
Battery Boost		14.5V ± 0.2V Per Battery			3.55V Per Cell	
Grid Charging Voltage (Equalize)		15.5V ± 0.2V Per Battery(After 30 Days)			N/A	
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				
Display Alarms Protection		Output load Percentage, Grid - On / Fail / High / Low, Battery - Low Pre-alarm / Low Trip , Inverter - On / OFF, Overload				
Enclosure		IP 20				
Operating Temp.		0 to 40 Deg C				
Humidity		Up to 95% Rh (non-condensing)				
Cooling		Forced Air (FAN)				
Noise		< 55 dB, distance 1 meter				
Dimensions in mm (L X W X H)		230x272x111		280x274x258	345x335x230	
Weight (Approx. Kgs.)		12 Kgs		22 Kgs	25 Kgs	27 Kgs
Bypass Switch		Relay				
Wheels		Not Provided				

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