



# Reliable, Long-Lasting Power with **Our Premium Product Range!**







## Company Overview

**SunGarner Energies Ltd.** is one of India's leading integrated sustainable energy companies. We deliver comprehensive solutions for solar power, energy generation, and conservation under one roof, powered by advanced technologies (**BESS**). With a team that embraces challenges positively, we are committed to providing eco-friendly, customer-focused, and innovative engineering solutions that benefit both industry and society.

**Seltrik Electric India Pvt. Ltd.**, a wholly owned subsidiary of SunGarner Energies Ltd. (listed on the **National Stock Exchange**), specializes in **Home Inverters, Solar Inverters, Lithium Batteries, Wall Mounted In-built Lithium Inverter** serving diverse energy needs across India.

**SunGarner Green Asset Pvt. Ltd.**, established in June 2024, is dedicated to building and managing renewable energy assets across India. As an **Independent Power Producer (IPP)**, we develop and operate large-scale solar and hybrid projects under CAPEX, OPEX, and RESCO models, enabling clients to adopt clean energy without upfront investment.



# Vision & Mission

To become a premier engineering organization and a leader for all Power Requirements globally offering Power Generation and Energy Conservation Solutions under one roof with cutting edge technologies. We are focused to deliver environmental friendly, customer friendly engineered solutions and products for betterment of industries and society.

Our Mission is to add value to our customers with cost effective, energy efficient, innovative, and reliable power backup. SunGarner provides growth to every deserving individual associated with the company – be it employees, business partners and suppliers.

## In House R&D and Manufacturing

Our innovative and professional team has achieved pioneering work of India's first Solar Online UPS which was acknowledged and recognized by premier institutions like IIT -BHU.

The in-House Engineering and R&D capability enable us to develop and deploy bespoke product engineering capabilities including remote monitoring and management over various communication protocol.

**Our in house R&D and manufacturing makes us one of the most reliable power solution providers of Pure Sine Wave Solar Online UPS, Solar MPPT/PWM PCU, Lithium-Ion Batteries, Wall Mounted In-Built Lithium-ion Inverter and BESS.**





# Products & Services:

## Sine Wave Inverters

- » Non Solar 550VA - 10KVA

## Solar Inverters

- MPPT
  - » 1100VA - 10KVA
- PWM
  - » 1100VA - 3KVA

## Lithium-ion Supported Inverters

- Non Solar
  - » 1100VA - 3KVA
- MPPT
  - » 1100VA - 60KVA
- PWM
  - » 1100VA - 3KVA

## Rooftops

- » Solar Grid Tied
- » Solar Off Grid

## Wall Mounting Inverter with In-Built Lithium-iron

### Batteries

- » Lithium-ion Batteries  
(12.8V 80Ah - 384V-100Ah)

### PV Module

- » Polycrystalline 40-335 Wp
- » Monocrystalline 100-400 Wp & above

## Battery Energy Storage System (BESS)

## Energy Storage System (ESS)

### Services

- » OEM
- » In house R&D and Engineering
- » In House Quality Center
- » Service Centers

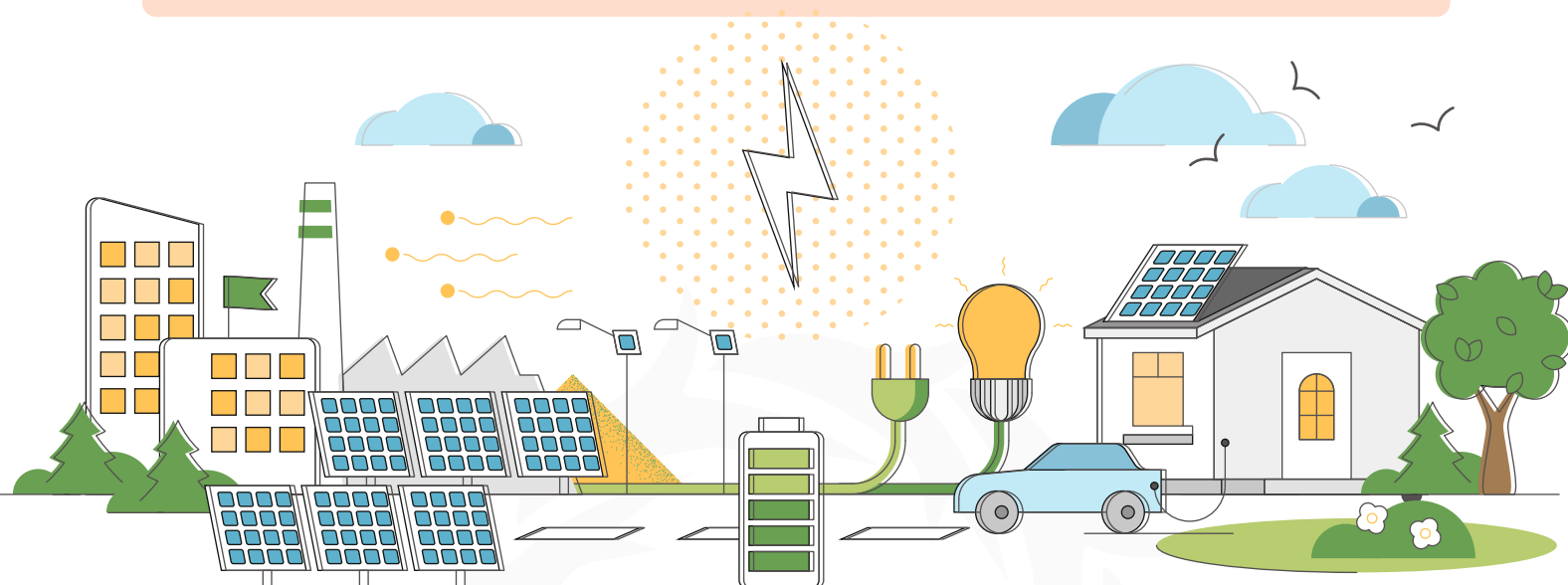




**10000+** Installations in  
23+ States across India

**100+** Industrial  
Solar Power Plants

**Saves 36** Million Electrical Units pa equivalent to the savings of 5  
Million USD for Its customers annually



## Industry We Cater

Process Industry

Pharma

Machine Manufacturing

Schools & Institutions

Textile

Poultry, Agri & Cold Storages

Healthcare & Hospitality

Residential

Filling Stations

## Certifications



ISO 9001:2015



ISO 14001:2015



IHSAS 45001



Bureau Veritas 1828



MNRE Certificate



Bureau of India Standards



Standard organisation fo Nigeria



IEC 60068 | IEC 61000 | IEC 62109  
IEC 62116 | IEC 60255 | IEC 61683:1999

## BIS Certified Inverters



An ISO 9001, OHSAS 18001 Certified

**Submersible  
Pump Can Run**

## Pure Sine Wave UPS 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.
- Over Temperature Protection
- Deep Discharge Battery charging from A.C. Mains.
- 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)
- 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.
- Comprehensive LCD Display.

## 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



## Technical Specifications

### Pure Sine Wave UPS Lead Acid & Lithium-ion Battery Supported

Model No. (Lead Acid)		SK0512N	SK0712N	SK1112N	SK1724N	SK2224N	SK2524N	S3024N	SK3548N	SK5048N
Model No. (LITHIUM-ION BATTERY)		SKL0512N	SKL0712N	SKL1112N	SKL1724N	SKL2224N	SKL2524N	SKL3024N	SKL3548N	SKL5048N
Ratings		550VA	750VA	1100VA	1750VA	2200VA	2500VA	3000VA	3500VA	5000VA
ONLY For Lithium-ion (No. of cells)		4S			8S				15S/16S	
Nominal DC		12V/12.8V			24V/25.6V				48V	
Switching Element		MOSFET								
Controller		DSP IC 32 BIT								
		Inverter Parameters								
Output Voltage		220V ± 8%, 1ϕ								
Output Frequency		50Hz ± 1								
Max Load (±5%)		400W BULB LOAD	600W BULB LOAD	800W BULB LOAD	1200W BULB LOAD	1600W BULB LOAD	8A	9.5A	11A	17A
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	Battery to Mains	< 10ms								
	Mains to Battery	< 12ms								
Protections & Alarm		Over and under voltage Grid, Overload, Battery Low & High, Short Circuit, Over Temperature								
Display Parameters		Input Voltage, Frequency, Battery - Voltage & Current								
		Grid Input Parameters								
Input Low Cut Voltage		90V ± 5V INV & 180V± 5V UPS MODE							120V ± 5V (SATEABLE)	
Input Low Recovery Voltage		> 100V ± 5V INV & 190V± 5V UPS MODE							> 130V ± 5V	
Input High Cut Voltage		290V ± 5V INV & 260V± 5V UPS MODE							270V ± 5V (SATEABLE)	
Input High Recovery Voltage		< 280V ± 5V INV & 250V± 5V UPS MODE							< 260V ± 5V	
Input Frequency Range		47Hz - 53Hz								
		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 VPer Battery				3.55V Per Cell				
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				330X210X355			600x350x482	700x350x520
Weight (Approx. Kgs.)		6.5 Kgs.	7.5 Kgs.	8.5 Kgs.	11 Kgs	16 Kgs	19 Kgs		35 Kgs	45 Kgs
Bypass Switch		Relay								SCR
Wheels		Not Provided							Provided	



## 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



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

MPPT Solar Inverters are a next generation solar inverters, High efficiency MPPT technology ensure 20% to 30% more solar power harvesting from the same capacity solar panels as compare to other technology. Its state-of-the art design and intelligent control optimizes the yield of all PV installations in residential, offices, rural and other remote installations with very poor or no grid availability. It consists of MPPT based solar charge controller and bi-directional inverter with transformer on the AC side. Transformer based design makes our inverter more rugged and reliable in worst grid input conditions. It provides uninterrupted Pure Sine Wave power at the load output using Solar, Battery and grid input in customizable order of priority.

Latest DSP based control ensures excellent performance and protection from any kind of malfunction. The high conversion efficiency helps in longer battery backup. Ease of operation and Plug 'N' Use type of design make it the ideal product for all kinds of users.

### Highlights

- **Efficiency:**

- a) MPPT Charge Controller @95%
- b) MPPT PCU / Inverter @85%
- c) MPPT Tracking Efficiency @99.5%

- **Solar Feature:**

- a) Sharing current solar with grid
- b) High efficiency

- **ATC (Automotive Temperature Compensation)**

- a) when temperature is below 25 degree, ATC is working to boost the battery V to optimum load so that you get the more back up.
- b) When temp. is above 25 degree, ATC is saving power in charging to reduce boost V.

- **Grid Charging** through multiple settings (0,5,10 & 15 Amp)

- **Battery Equalizer** inside to increase battery life & backup (not applicable for Lithium battery)

- Charge sharing features in Solar PCU
- Bi-Directional Technology
- Special in built MCB, which trips & protects all your appliances even before the traditional MCB can respond. (7.5KVA onwards)
- Isolation transformer, which provides safety to the user & the appliances.
- Generator compatible (50 Hz +/- 3%)
- 30% more efficient than conventional PWM/PCU
- Soft start technology
- Cold start technology
- Shows Charging Volt of the Battery
- DSP based automatic battery level management
- Compatible with Inverter load as well as UPS load
- Bypass switch for manual Operation
- Protection Inverter Batt. Low, Batt. High, Overload, Short Circuit, Overtemp, PV Reverse, PCB Trip/Fuse Trip.
- Selected Priority Modes for Solar/Grid/Battery.



Ministry of New and Renewable Energy  
Government of India



>>PP<<



INTERNATIONAL CERTIFICATIONS

FOR EXPORT  
ALSO



# Technical Specifications

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

Model No.(Lead Acid)		SK1112M	SK2124M	SK2524M	SK3024M	SK3548M	SK5048M	SK7596M	SK10120M
Model No.(LITHIUM-ION BATTERY)		SKL1112M	SKL2124M	SKL2524M	SKL3024M	SKL3548M	SKL5048M	SKL7596M	SKL10120M
Ratings		1100VA	2100VA	2500VA	3000VA	3500VA	5000VA	7500VA	10KVA
ONLY For Lithium-ion (No. of cells)		4S	8S			15/16S		30S	38S
Nominal DC(Lead Acid /Lithium-ion)		12V/12.8V	24V/25.6V			48V		96V	120V/121.6V
Switching Element		MOSFET						IGBT	
Controller		DSP IC 32 BIT							
Charging Mode		Priority( Grid/Solar)							
		Solar Parameters							
MPPT		22V-50V	45V-100V			80V-160V		160V-350V	200V-400
For Max Current (MPPT)		30A	50A	60A		50A	60A	70A	70A
Battery Charging by Solar		20A							
		Inverter Parameters							
Output Voltage		220V ± 8%, 1ϕ							
Output Frequency		50Hz ± 1							
Max Load (±5%)		800W BULB LOAD	1600W BULB LOAD	8A	9.5A	10.5A	16A	26A	34A
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%							
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 ± 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				120V ± 5V			
Input Low Recovery Voltage		> 100V ± 5V				> 130V ± 5V			
Input High Cut Voltage		290V ± 5V				270V ± 5V			
Input High Recovery Voltage		< 280V ± 5V				< 260V ± 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				3.0V 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				3.5V 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 ,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 (FAN)							
Noise		< 55 dB, distance 1 meter							
Dimensions in mm (L X W X H)		230x272x111	280x274x258	345x335x230		600x350x482	700x350x520	700x350x520	
Weight (Approx. Kgs.)		12 Kgs	22 Kgs	25 Kgs	27 Kgs	39 Kgs	55 Kgs	65 Kgs	78 Kgs
Bypass Switch		Relay					SCR		
Wheels		Not Provided				Provided			



# LiFePO4 Battery

This specification applies to SunGarner Energies Limited, design and development of the battery, it is the basis of product design, production and inspection. The role of understanding the quality of the product and the correct method of use.

## Safe Performance

No.	Item	Feature.	Measurement
1.	Over-charge performance	No fire, No exploding, No smoking obtained	After standard charge, the battery shall be charged at 0.5C
2.	Over-discharge performance	No fire, No exploding, No smoking obtained	After discharged to the cut-off voltage, the battery shall be subjected to a short-circuit condition with a load of resistance less than 30Ω for 24 hour.
3.	Short-circuit performance under room temperature	No fire, No exploding, No smoking obtained	After standard charged, put the cell/battery into the explosion-proof with glass cover to short the positive and the negative for the battery (the total impedance is less than 100mΩ) for 1 hour

## Storage

Item	Criteria
Storage Temperature	Short period less than 1 month
	Long period less than 3 month
	Long period more than 3 month
Relative Humidity	≤75%RH
Charged	About 40%~60% charged state

The batteries should be stored at room temperature, charged to about 30%~50% of capacity. We recommend that batteries be charged about once per 1 month to prevent over discharge.



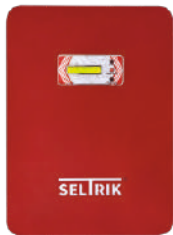


Battery Parameters											
Model		SK8012L	SK10012L	SK8024L	SK10024L	SK10048L	SK10096L	SK100120L	SK100192L	SK100240L	SK100384L
Battery Voltage(V)		12.8		25.6		48	96	121.6	192	240	384
Battery Capacity (Ah)		80	100	80	100	100					
Battery Energy (Wh)		1024	1280	2048	2560	4800	9600	12000	19200	24000	38400
Series Cell		4S		8S		15S	30S	38S	60S	75S	120S
No. of Cell		4		8		15	30	38	60	75	120
Standard Discharge 25℃	Max. constant current	80A	100A	80A	100A	100A	100A	100A	100A	100A	100A
	Cut-off voltage(V)	10.8	10.8	21.6	21.6	42	84	106	168	210	336
Standard Charge 25℃	Recommended Max. charging current	40A	50A	40A	50A	50A	50A	50A	50A	50A	50A
	Cut-off voltage(V)	14.5	14.5	29	29	54.5	106.5	136	216	270	426
Round trip efficiency(%)		>98%									
Calendar life 25℃		>10 years									
Cycle life (0.2C, 25℃)		80% DOD 3500 cycles									
Recommend operating temperature		Charging: 0℃~60℃									
		Discharging: -20℃~60℃									
BMS Parameters											
Charging Voltage	Cell Voltage Protection	3.75V Protection/Recover at 3.6V									
Discharging Voltage	Cell Voltage Protection	2.5V Protection/Recover at 3.1V									
Charging Current	Normal	≤40A	≤50A	≤40A	≤50A						
Discharging Current	Normal	≤80A	≤100A	≤80A	≤100A						
	Over Current Protection 1	>100A and <120A Delay 30s ,recovery in									
	Over Current Protection 2	>120A and <150A Delay 3s ,recovery in									
	Short Circuit Protection	≥200A Delay 1mS									
Cell Temp 1	Low temp protection	Charging < 0℃/Discharging <- 20℃ , Delay 1~2S									
Cell Temp 2	High temp protection	Charging >70℃/Discharging >75℃ ,Delay 1~2S									
Cell Balance	Make all cells be balance during charging process. Current: 150mA	$V_{Max} \geq 3.40V$ and $V_{Max} - V_{Min} \geq 40mV$ , Start balance/All cell voltages≤3.65V and $V_{Max} - V_{Min} \leq 40mV$ , Stop balance									
Dimension	Rack * Dimension(L*B*H)	290x155X285	290x155X285	370x250x160	370x250x160	480X350X270	610X650X600	1X525X525 X900	1X525X525X1792		2X525X525 X1792
Weight	Weight	12Kgs	12Kgs	21Kgs	21Kgs	42Kgs	102Kgs	133Kgs	216 Kgs	250 Kgs	432 Kgs



## SELTRIK WALL MOUNTED INVERTER WITH IN BUILT LITHIUM IRON PHOSPHATE (LiFePO4)

# Li+ Solar Inverter / Sine Wave Inverter



### ALL IN ONE POWER STATION

- LifePo4 Battery In-Built
- LifePo4 Battery Life 8-10 years
- Smart BMS Safety Technologies, Charging Time 4-5 Hours
- All in one system, Built in Smart Inverter, Maintenance Free
- Compact & Indoor Workable, Cost Effective Choice in Long Term
- No Fumes & Acid Spills
- \* Cycle Life: 3000 - 3500

### TRADITIONAL UPS/INVERTER

- Lead-Acid Battery
- Lead-Acid Battery Life 2-3 Years
- Fast Energy Consumption, Charging Time 10-12 Hours
- UPS & Separate Battery, Water Topping Enhance, Cost, Time & Labor
- Replacement After 3-4 Years, Less Cost Effective
- Fumes & Acid Spills Occur
- \* Cycle Life: 700 - 1000

## HOUSEHOLD ENERGY STORAGE SOLUTIONS

Inverter Energy offers a range of products designed for different applications, including in-built & external lithium-ion universal batteries and integrated energy storage inverters. Whether you're looking to transform your home into an eco-friendly, solar-powered residence, we have the perfect solution to fit your need, from **1100VA Wall Mounted, Table Top (1500VA-5KVA)**.



**Fast Charging**  
Battery Charging  
in 4:30 hours



**90V Charging**  
Even at Low  
Voltage



**Built in BMS**  
Automatic Low & High  
Battery Cut-Out



**Long Cycle Life**  
3000-3500 Cycle Life Under  
Normal Operating Conditions



**Protection 24x7**  
Over-Load & Short  
Circuit



**Back-Up Time**  
3:15 Min. @400W LFP-PC  
100Ah, 1280Wh



# Technical Specifications

## SELTRIK WALL MOUNTING INVERTER WITH IN-BUILT LITHIUM-IRON PHOSPHATE (LiFePO4)

Model with Rating		
Model No.	SKL1112P (Wall Mounted)	SKL1724P (Table Top)
Ratings	1100VA	1750VA
Switching Element	MOSFET	
Controller	32 BIT	
Battery Capacity	100AH	
Nominal DC	12.8V	25.6V
Charging Mode	Priority (Grid/Solar)	
Dimension in MM (LxBXH)	270x175x475	380x286x290
Weight in KG	20 Kg	32 Kg

Solar Parameters		
Solar Input Range (PWM)	17V-35V	31V-60V
For Max Current	30A	50A
Inverter Parameters		
Output Voltage	220V±8%, 1φ	
Output Frequency	50Hz ± 1	
Max Load (±5%)	800W BULB LOAD	1200W BULB LOAD
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%	
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	

Battery Parameters			
Model		SK10012L	SK10024L
Battery Voltage(V)		12.8	25.6
Battery Capacity(Ah)		100	100
Battery Energy(Wh)		1080	2560
Series Cell		4S	8S
No. of Cell		4	8
Standard Discharge 25°C	Max. Constant Current	100A	100A
	Cut off Voltage (V)	10.8	21.6
Standard Charge 25°C	Recommended Max. Charging	50A	50A
	Cut off Voltage (V)	10.8	21.6
Round Trip Efficiency %		>98%	
Calendar Life 25°C		>10Years	
*Cycle Life (0.2C,25°C)		80% DOD 3500 Cycles	
Recommend Operating Temperature		Charging : 0°C - 60°C	
		Discharging : 20°C - 60°C	

BMS Protections			
Charging Voltage	Cell Voltage Protection	3.75V Protection /Recovery @ 3.1V	
Discharging Voltage	Cell Voltage Protection	2.5V Protection /Recovery @ 3.1V	
Charging Current	Normal	≤50A	≤50A
Discharging Current	Normal	≤100A	≤100A
	Over Current Protection - 1	>100 and <120A Delay 30s	
	Over Current Protection - 2	>120 and <150A Delay 30s	
	Short Circuit Protection	≥200A Delay 1mS	
Cell Temp 1	Low Temp Protection	Charging<0°C/Discharging<-20°C, Delay 1 2S	
Cell Temp 2	High Temp Protection	Charging<70°C/Discharging<-75°, Delay 1 2S	

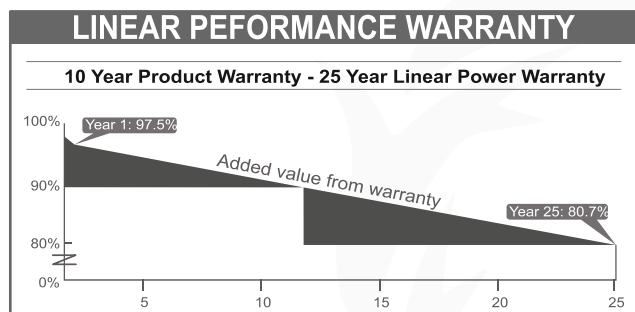
# PV Module

## 40-545Wp

Seltrik polycrystalline solar module has 36 cells of high performance. To improve the light absorption and efficiency these modules use an advanced surface texturing process. Seltrik PV modules have anti dust coating which improves the overall performance and increases the power generation. The cells used in Seltrik PV Modules have 25 years limited warranty on power output and 5 years limited warranty on materials or efficiency.

### Features

- » Electroluminescence tested for microcracks
- » Mismatch losses in field are minimized due to sortation of cells by power and current
- » High fill factor for improved energy conversion efficiency
- » For wattage ranging from 200 and above, 72 cell configurations are used



### Applications

- » Off-grid residential systems
- » On-grid rooftop residential, commercial and industrial rooftop installations
- » Solar Pumping applications



#### BETTER DESIGN FOR IMPROVED PERFORMANCE

Latest 5 Busbar configuration is used for better module efficiency and power output



#### HIGHLY DURABLE

High strength frame design can withstand front load of upto 5400 Pa and rear load of upto 2400 Pa to counter heavy winds and snowfall



#### BETTER PERFORMANCE IN LOW LIGHT AND HIGH TEMPERATURE

Improved temperature coefficient provides highly effective performance even in high temperature and advanced glass ensures high performance in low light.



#### HIGH PERFORMANCE OVER YEARS

SELTRIK PV modules are designed to deliver 80% performance even after 25 years of service.



## PV MODULE RANGE

### ELECTRICAL PARAMETERS

	MONOCRYSTALLINE				POLYCRYSTALLINE									
	150W 12V	200W 12V	400W 24V	545W 24V	40W 12V	50W 12V	60W 12V	75W 12V	110W 12V	165W 12V	200W 12V	250W 24V	335W 12V	335W 24V
P <sub>max</sub> (Wp)	20.21	20.33	40.67	41.9	18	18	18	18	18.2	19.1	18	36	19.1	38.2
Rated Voltage V <sub>MP</sub> (V)	20.21	20.33	40.67	41.9	18	18	18	18	18.2	19.1	18	36	19.1	38.2
Rated Current I <sub>MP</sub> (A)	7.43	9.84	9.84	13.02	2.22	2.78	3.33	4.17	6.05	8.64	11.11	6.94	17.54	8.77
Open Circuit Voltage V <sub>OC</sub> (V)	24.12	24.48	48.6	49.81	21.6	21.6	21.6	21.6	21.6	21.6	21.6	43.2	22.5	45
Short Circuit Current I <sub>SC</sub> (A)	7.82	10.1	10.1	13.9	2.33	2.92	3.5	4.38	6.22	8.94	11.66	7.29	18.2	9.12
Module Efficiency (%)	18.82	19.69	20.25	21.12	13.27	13.78	16.53	14.51	16.42	16.24	15.15	15.48	17.46	17.46
Solar Cells per Module	36	36	72	72	36	36	36	36	36	36	72	72	72	72
Module Dim. Width (W) mm	661	675	995	1133	666	666	666	666	666	675	981	981	981	981
Module Dim. Length (L) (mm)	1206	1505	1985	2278	432	545	545	776	1000	1505	1346	1646	1956	1956
Module Dim. Depth (D) (mm)	30	30	35	35	30	30	30	30	30	30	34	34	35	35
Weight Net/Gross (Approx) (Kg)	10	13	25.5	28	4.0	4.7	4.7	6.6	8.8	13.0	16.0	20.0	25	25
Mounting (C to C) (W) (mm)	632	640	960	1083	632	632	632	632	632	632	950	950	950	950
Mounting (C to C) (L) (mm)	581	741.5	800	990	300	300	300	388	503	741.5	800	800	800	800
Size of Mounting Hole (mm)	6*9	6*9	6*9	9*14	6*9	6*9	6*9	6*9	6*9	6*9	6*9	6*9	6*9	6*9
Maximum System Voltage (V)	1000	1500	1500			600					1000			1500

### COMMON FEATURES

Junction Box	IP 65 - IP 68
Solar Cell	Poly Crystalline ( Mono, Mono Perc- Optional)
Frame	Anodized Aluminium Alloy
Front Glass (Thickness) (mm)	3.2mm, Tempered Glass
Standard Test Condition (STC)	1000W/M <sup>2</sup> . 25°C, AM 1.5 (within the measurement tolerance of ±5 %)
Relative Humidity at 85°C (%)	85
Temperature coefficients of V <sub>oc</sub> (%)	-0.32 % /°C
Temperature coefficients of P <sub>m</sub> (%)	-0.45 % /°C
Max. Permitted Module Temperature	-40 C to + 85°C
Tolerance on Electrical Parameter (%)	± 15 %



## Our Channel Partners



# Dealers Meet



# Rooftops

## Solar On Grid Power Plants

## Description

SunGarner has successfully installed solar roof top projects of various capacities on turnkey basis not only within township area but also in rural parts of India. The Government of India approved R&D and complete in house manufacturing gives our customer a wide array of sustainable and affordable solutions to choose from for their home, commercial and industrial applications.

## Features & Applications

- » Low energy cost > 5INR/KWH
- » Negligible maintenance cost
- » Suitable for sheds/RCC roofs/parking lots
- » Accelerated depreciation for commercial applications
- » Payback Time less than 4 years
- » Panel life 25 years
- » Net metering facility

Save Up to  
70% on your  
Electricity  
bills

Enjoy  
benefits of  
Accelerated  
depreciation

Make your  
idle Roof a  
Sources of  
your Earning

A solution for  
rising tariffs  
of Electricity

Save diesel  
cost of your  
DG sets

Return on Investment in 3-4 years

20%  
Return on  
Investment

# Latest Projects



**Capacity: 6 MWh BESS**

Location: Tripura



**Capacity: 2.4 + 2.1 MW**

Location: Ahab & Bhadora, MP Kusum Yojana



**Capacity: 1.8MWP**

Location: V N Dyers & Processors Pvt. Ltd, Gorakhpur



**Capacity: 504 kWp**

Location: Awadh Rails, Haridwar



**Capacity: 300kWp**

Location: Placero International Pvt. Ltd.(Sonipat)



**Capacity: 250 kWp**

Location: Radiant Chemtech Pvt. Ltd. Greater Noida, UP



**Capacity: 200 kWp**

Location: Geeta Vatika, Gorakhpur, UP



**Capacity: 180kWp**

Location: Bhutan Power Corporation Rubessa-Bhutan



INVERTER MANUFACTURING UNIT



CORPORATE OFFICE



EXTERNAL QUALITY ASSURANCE



LITHIUM BATTERY PRODUCTION



CARD TESTING



INTERNAL QUALITY ASSURANCE



REI EXPO 2024



NIGERIA EXHIBITION





# Why SELTRIK



## Dispatches:



Export Shipment



Domestic Supply



# OUR CLIENTS



## Our Global Presence



- 📍 UAE
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- 📍 YEMEN
- 📍 OMAN
- 📍 LEBANON
- 📍 AFGHANISTAN
- 📍 NEPAL
- 📍 BHUTAN



## SUNGARNER ENERGIES LIMITED

### Factory Address:

Plot No. 113, Udyog Kendra -II, Sector Ecotech -III ,  
Greater Noida, Gautam Buddh Nagar, U.P. 201306, India

### Corporate Address:

1101, 11 Floor, GMIT Park Sector-142, Noida,  
Uttar Pradesh - 201305

## SELTRIK ELECTRIC INDIA PRIVATE LIMITED

### Address:

Plot No. 322, Udyog Kendra-II, Sector Ecotech-III,  
Greater Noida, Gautam Buddha Nagar, U.P. 201306, India

### Middle East and North Africa :

PO Box 924, Postal Code 112, Sultanate of Oman

Email : [info@sungarner.com](mailto:info@sungarner.com)

Toll Free : 1800-102-2748

Sales Enquiry  : +91-97175-58008

Service Helpline  : +91-74287-44995



Contact at: