

Smart Electric  
⚡

# SELTRIK

by SunGarner Energies





## Company Overview

SunGarner is a leading sustainable integrated energy company in India manufacturing a wide range of power solutions such as **Solar Power, UPS, Batteries, Inverters, MCCB, Electrical Wires and EV Products** under **SELTRIK** Brand.

The company boasts of a dedicated R&D and product Engineering team developing products based on the latest microprocessor-based design for specialized uses, power conditioning, and energy storage applications, with two manufacturing units at Greater Noida & Surajpur in U.P. for Electronics and Storage, five dedicated service centers across **India**. **Sungarner now exported to African continents, Middle East & South East Asia**, the company is poised for tapping opportunities in the emerging sectors of new energies, electric mobility, and other process-based industries. We at SunGarner are passionate about **innovation**.



# 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.

# R&D and Engineering

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 PCU & Batteries.*



# Products & Services:

## Sine Wave Inverters

- » SK1100VA ~ 10 KVA

## Solar Inverters

### MPPT

- » L (1-5 KVA)
- » H (6-10 KVA)
- » H+ (15-100 KVA)

### PWM

- » 1100VA~10Kva

## Rooftops

- » Solar Grid Tied
- » Solar Off Grid

## Online UPS

- » PowerMacs L
- » PowerMacs H
- » Solar Online UPS
- » Lotus

## Batteries

- » Inverter Tall Tubular (12V 150 ~ 320Ah)
- » Solar Tall Tubular (12V 40 ~ 230Ah)

## EV Products

- » E-Rickshaw Battery
- » E-Rickshaw Charger

## PV Module

- » Polycrystalline 40~335 W
- » Monocrystalline 100~400 W & above

## Services

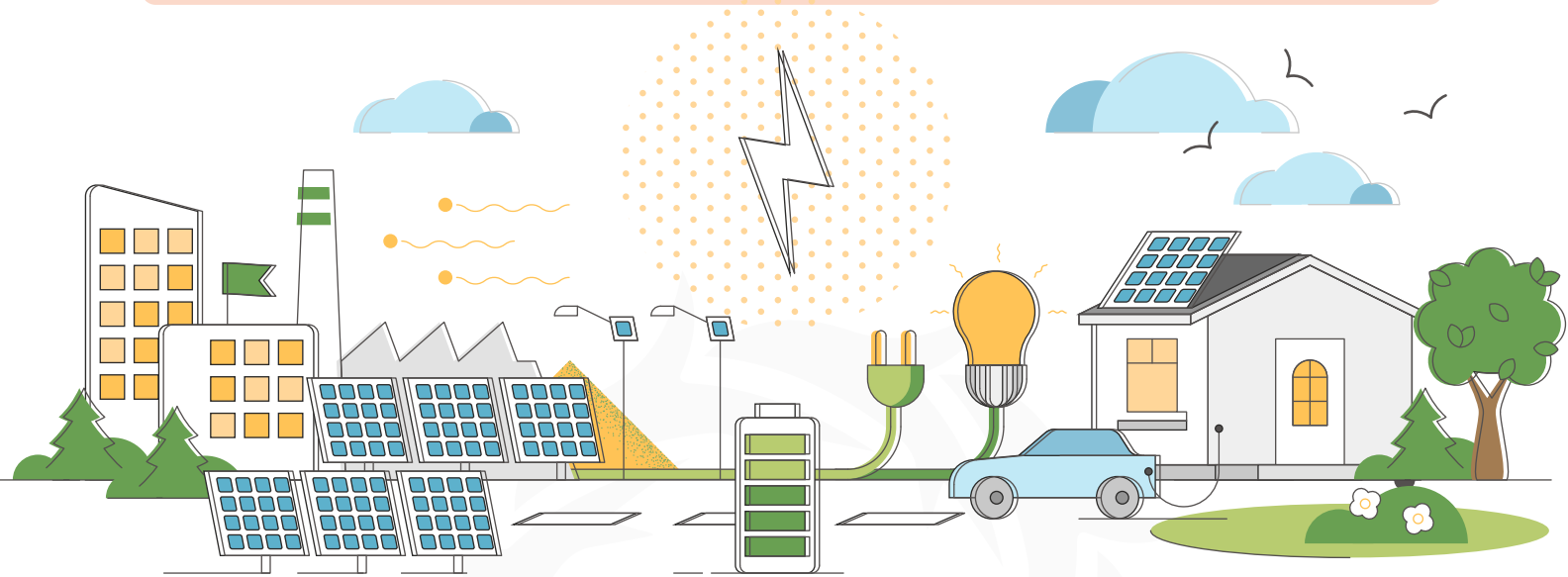
- » OEM
- » In house R&D and Engineering
- » In house Quality Center
- » Service Centers



**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

# Pure Sine Wave Home UPS, Static Inverter 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.
- AC Mains available, battery charging /charged and its voltage indication provided on LCD display.
- Battery type charging selection (Tubular /Flat /SMF/GEL).
- User friendly, feather touch control and selection switches with LED indication on front panel.
- 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.
- 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

# Technical Specifications

## Pure Sine Wave Home UPS, Static Inverter

Model No.	SK1112N	SK1724N	SK2224N	SK2524N	SK3548N	SK5048N	SK7596N	SK10120N
Ratings	1100VA	1750VA	2200VA	2500VA/24V	3500VA/48V	5000VA/48V	7500VA/96V	10KVA/120V
Nominal DC	12V	24V			48V		96V	120V
Switching Element	MOSFET						IGBT	
Controller	DSP IC 32 BIT							
Max. Battery Capacity	220AH							
Inverter Parameters								
Output Voltage	220V ± 8%, 1φ						230V ± 8%, 1φ	
Output Frequency	50Hz ± 1							
Max Load (±5%)	800W BULB LOAD	1200W BULB LOAD	1600W BULB LOAD	8A	10.5A	16A	26A	34A
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				Over and under voltage Grid, Overload, Battery Low & High, Short Circuit, Over Temperature			
Display Parameters	Input Voltage, Frequency, Battery - Voltage & Current				Over and under voltage Grid, Overload, Battery Low & High, Short Circuit, Over Temperature			
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 Low Buzzer	10.7V ± 0.2V Per Battery							
Battery Low Cut	10.5V ± 0.2V Per Battery							
Battery Flot	13.5V ± 0.2V Per Battery							
Battery Boost	14.5V ± 0.2V VPer Battery							
Display Parameters	LCD display for Input Voltage, Frequency, Battery - Voltage & Current							
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	700x350x520	
Weight (Approx. Kgs.)	8.5 Kgs.	11 Kgs	16 Kgs	19 Kgs	35 Kgs	45 Kgs	68 Kgs	75 Kgs
Bypass Switch	Relay					SCR		
Wheels	Not Provided				Provided			

# 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)						
<b>Solar Parameters</b>							
Solar Input Range (PWM)	17V-35V	35V-60V				70V-120V	
For Max Current	30A	50A	60A	50A	60A		
<b>Inverter Parameters</b>							
Output Voltage	220V ± 8%, 1φ						
Output Frequency	50Hz ± 1						
Max Load (±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	
<b>Grid Input Parameters(UPS MODE) IT Load</b>							
Input Low Cut Voltage	180V ± 5V						
Input Low Recovery Voltage	> 190V ± 5V						
Input High Cut Voltage	260V ± 5V						
Input High Recovery Voltage	< 250V ± 5V						
<b>Grid Input Parameters(Inverter MODE)</b>							
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						
<b>Battery Parameters</b>							
Battery Low Buzzer	10.7V ± 0.2V Per Battery						
Battery Low Cut	10.5V ± 0.2V Per Battery						
Battery Flot	13.5V ± 0.2V Per Battery						
Battery Boost	14.5V ± 0.2V Per Battery						
Grid Charging Voltage (Equalize)	15.5V ± 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	



# MPPT Solar PCU/ MPPT Solar Online

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.



## Salient Features

- Intelligent Charging Algorithm to increase Battery Life
- MPPT based State-of-the-art Latest technology for Optimum Performance
- Smart solar charging current sharing when mains is available
- 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, MCB Trip/Fuse Trip.
- Smart Solar Management (User Configurable)
- 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
- Advance Battery Management for longer battery life and prevent battery from overcharging
- Selectable Priority Modes for Grid/Solar/Battery

# Technical Specifications

## MPPT Solar PCU / Solar Online

Model No.	SK1112M	SK1724M	SK2124M	SK2524M	SK3024M	SK3548M	SK5048M	SK7596M	SK10120M
Ratings	1100VA	1750VA	2100VA	2500VA	3000VA	3500VA	5000VA	7500VA	10KVA
Nominal DC	24V					48V		96V	120V
Switching Element	MOSFET							IGBT	
Controller	DSP IC 32 BIT								
Max. Battery Capacity	220AH								
Charging Mode	Priority( Grid/Solar)								
Solar Parameters									
MPPT	45V-100V					80V-160V		160V-350V	200V-400
For Max Current (MPPT)	30A		60A		50A	70A	70A	70A	
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	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 Low Buzzer	10.7V ± 0.2V Per Battery								
Battery Low Cut	10.5V ± 0.2V Per Battery								
Battery Flot	13.5V ± 0.2V Per Battery								
Battery Boost	14.5V ± 0.2V Per Battery								
Grid Charging Voltage (Equalize)	15.5V ± 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 (FAN)								
Noise	< 55 dB, distance 1 meter								
Dimensions in mm (L X W X H)	230x272x111	284x274x159	280x274x258	345x335x230		600x350x482	700x350x520	700x350x520	
Weight (Approx. Kgs.)	12 Kgs	16 Kgs	22 Kgs	25 Kgs	27 Kgs	39 Kgs	55 Kgs	65 Kgs	78 Kgs
Bypass Switch	Relay						SCR		
Wheels	Not Provided					Provided			









# LONG LASTING DEEP CYCLE BATTERIES

## Technical Innovation by SunGarner:







- Panoply Spine for lowering corrosion and enhancing life
- Surfeited paste gives comprehensiveness of active material, helps in minimizing resistance, offering steady power and enhancing life
- Ragged & Porous Sep minimizes stratification and improves performance
- Best of Science venting system eliminates acid squirting and reduces mist

SunGarner offer the latest series of Solar Tubular, Tubular & Jumbo Tubular Batteries-‘Vault’ marketed in its state of the art ISO 9001:2015, ISO 14001:2015 certified factories to meet the growing power demand in India & Abroad.

## PRODUCT FEATURES

-  Long shelf life when left unattended for extended periods
-  Pasted Negative Plates
-  Tubular Positive Plates
-  Acid Resistant Polyester Gauntlets
-  High Porosity Envelope Separators DARAMIC-USA
-  Micro porous Ceramic Vent Plug

## KEY BENEFITS

-  Long design life
-  Very low maintenance
-  Can handle extreme weather conditions
-  Rugged Performance
-  Longer life without charging
-  More efficient and saves money

## CONDITION OF FULLY CHARGED BATTERY

- Consecutive hourly reading of specific gravity and voltage become constant
- Top of charge voltage will be around 16.2V - 16.5V
- All Cells should be gas freely
- Minimum Ah has been given
- Specific Gravity at fully Charged condition  $1.240 \pm 0.005$  at  $27^{\circ}\text{C}$
- Depth of Discharge - Designed life cycle at C20 discharge at  $27^{\circ}\text{C}$ 
  - 1500 cycle to 80% DOD
  - 3000 cycle to 50% DOD
  - 5000 cycle to 20% DOD

# Batteries

## Solar Tall Tubular



### Technical Specifications:

Battery Model	Capacity to 10.5 V at 27°C (Ah)	Rating	Nominal Voltage (V)	Battery Weight (Kg) ±3%		Overall Dimensions (+/-3) mm			Warranty (Months)**	Application
				Without Acid	Gross Weight	L	W	H *		
SKST 15060	150	C10	12	35	60	505	190	410	60+12	Solar
SKST 20060	200	C10	12	41	65	505	190	410	60+12	Solar
SKST 22560	225	C10	12	46	68	505	190	410	60+12	Solar

\*Height upto Terminal Top

\*\*warranty applicable as plain+pro-rata

## Inverter Tall Tubular

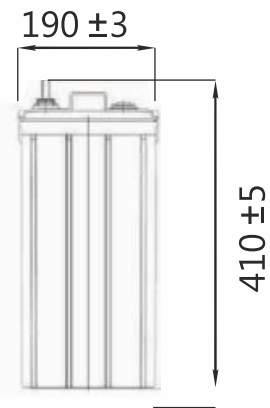


### Technical Specifications:

Battery Model	Capacity to 10.5 V at 27°C (Ah)	Rating	Nominal Voltage (V)	Battery Weight (Kg) ±3%		Overall Dimensions (+/-3) mm			Warranty (Months)**	Application
				Without Acid	Gross Weight	L	W	H *		
SKJT13524	135	C20	12	26	43	500	220	280	24+24	Inverter & UPS
SKJT16524	165	C20	12	30	51	500	275	285	24+24	Inverter & UPS
SKIT12024	120	C20	12	29.5	53	505	190	405	24+24	Inverter & UPS
SKIT13536	135	C20	12	33.5	55	505	190	405	36+24	Inverter & UPS
SKIT15036	150	C20	12	38	57	505	190	405	36+24	Inverter & UPS
SKIT17036	170	C20	12	39.5	60	505	190	405	36+24	Inverter & UPS
SKIT20036	200	C20	12	41	61	505	190	405	36+24	Inverter & UPS
SKIT21036	210	C20	12	42	63	505	190	405	36+24	Inverter & UPS
SKIT23036	230	C20	12	43	65	505	190	405	36+24	Inverter & UPS
SKIT25036	250	C20	12	44	67	505	190	405	36+24	Inverter & UPS
SKIT32036	320	C20	12	52.5	75	505	190	405	36+24	Inverter & UPS

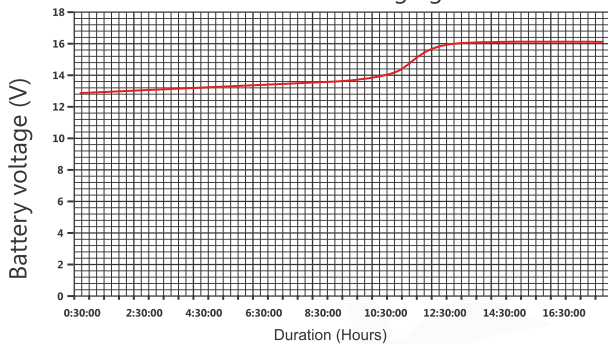
\*Height upto Terminal Top

\*\*warranty applicable as plain+pro-rata

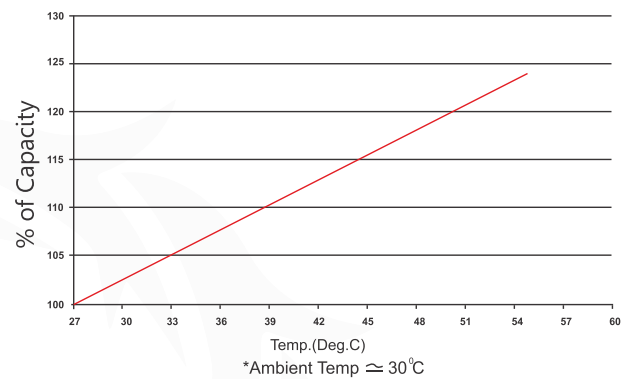


### Charge Characteristic graph

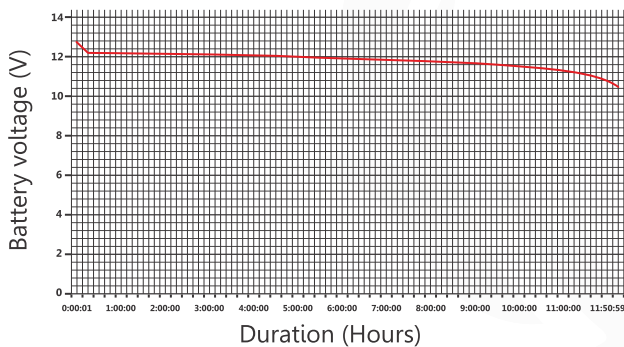
For Boost Charging



### Temperature Vs Capacity

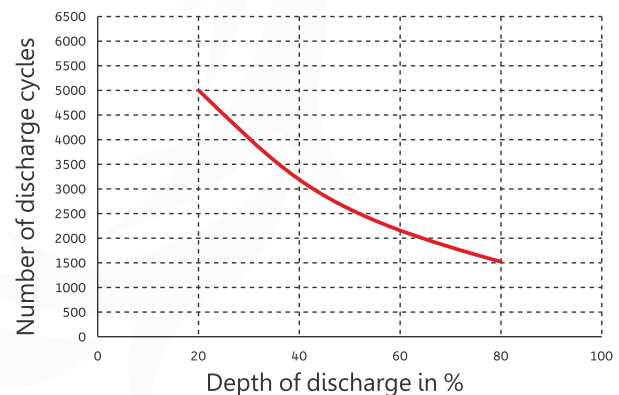


### Discharge Characteristic Graph



\*Above both graphs for 150 AH,  $\frac{C_{20}}{C_{10}} \pm 2\%$  (Due power losses)

### Cycle life vs. DOD of SELTRIK Series



### Discharge & Charge Scenario (80%DOD)

- 1) Cycle method: Discharge with  $2I_{10}$  for 4 hours (80% DOD), charge with  $2I_{10}$  for 3.5hour +  $I_{10}$  for 0.5hour +  $0.25I_{10}$  for 3.5hour. This is one cycle.
- 2) Residue Capacity determination: The batteries are discharged at 10 hour rate after every 50 cycles to test battery capacity. When residue capacity of 10 hour rate capacity is lower than 80%, test is ended. After discharge at 10 hour rate after every 50cycles, the charge method is: charge 80% of discharged capacity with current of  $2I_{10}$  + charge 20% with current of  $I_{10}$  + charge 20% with current of  $0.41I_{10}$  (i.e. charge 120% of discharged capacity)
- 3) Temperature: 27  
 Advantage of Upper Constant Current Charge Model Battery;  
 can be completely recharged within 8 hours.  
 The end charge voltage will be higher than 2.6Vpc, which is good for active material exchange.  
 Disadvantage of Upper Constant Current Charge Model  
 It has risk of battery malfunction without voltage limited. It isn' easy to manage charging in practice.

\* **Technical Parameters are Subject to Change due to Continuous improvements and R&D**

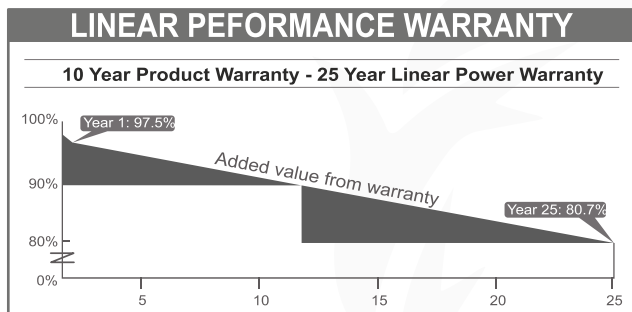
# PV Module

## 40-545w

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				
Pmax. (Wp)					18	18	18	18	18.2	19.1	18	36	19.1	38.2				
Rated Voltage VMP (V)	20.21	20.33	40.67	41.9	2.22	2.78	3.33	4.17	6.05	8.64	11.11	6.94	17.54	8.77				
Rated Current IMP (A)	7.43	9.84	9.84	13.02	2.16	2.16	2.16	2.16	2.16	2.16	2.16	43.2	22.5	45				
Open Circuit Voltage VOC (V)	24.12	24.48	48.6	49.81	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
Short Circuit Current ISC (A)	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				
Module Efficiency (%)	36	36	72	72	36	36	36	36	36	36	72	72	72	72				
Solar Cells per Module	661	675	995	1133	666	666	666	666	666	675	981	981	981	981				
Module Dim. Width (W) mm	1206	1505	1985	2278	432	545	545	776	1000	1505	1346	1646	1956	1956				
Module Dim. Length (L) (mm)	30	30	35	35	30	30	30	30	30	30	34	34	35	35				
Module Dim. Depth (D) (mm)	10	13	25.5	28	4.0	4.7	4.7	6.6	8.8	13.0	16.0	20.0	25	25				
Weight Net/Gross (Approx) (Kg)	632	640	960	1083	632	632	632	632	632	632	950	950	950	950				
Mounting (C to C) (W) (mm)	581	741.5	800	990	300	300	300	388	503	741.5	800	800	800	800				
Mounting (C to C) (L) (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				
Size of Mounting Hole (mm)	1000	1500	1500				600				1000			1500				
Maximum System Voltage (V)																		

### 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/Met <sup>2</sup> . 25°C, AM 1.5 (within the measurement tolerance of ±5 %)
Relative Humidity at 85°C (%)	85
Temperature coefficients of Voc (%)	-0.32 % /°C
Temperature coefficients of Pm (%)	-0.45 % /°C
Max. Permitted Module Temperature	-40 C to + 85°C
Tolerance on Electrical Parameter (%)	± 15 %

# Rooftops

## Solar On Grid Power Plants

800+ Projects Installed

### 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 Upto 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

### Actual Site Pictures



**Capacity: 71 kWp**

Location: : Dayawati Modi School, Rampur



**Capacity: 101KWp**

Location: Interglobe Enterprises Gr. Noida



**Capacity: 40kWp**

Location: DLF Primus Sec-82A ,Gurgaon



**Capacity: 900kWp**

Location: VN Dyers

# Projects



**First Solar Project of Bhutan  
Installed by SunGarner**



**DLF Primus 40 kWp  
Sec. 82, A Gurugram, Haryana**



**900 Kwp V N Dyers & Processors Pvt. Ltd  
Gorakhpur**



**115 Kwp Boutique International  
Gurgaon**



**110 Kwp Modi Xerox  
Rampur**



**102 Kwp Interglobe Enterprises  
Greater Noida**





Batteries Charging Points

Battery Spine Casting

Battery Grid Casting



Middle East Energy, Dubai, March 2023



# Why SELTRIK

- 01 Seltrik Products now available at exclusive SELTRIK Store 
- 02 Efficient Products based on MPPT Technology 
- 03 Technology Enabled Automated Production & QC Process ensuring Consistency of Product Quality 
- 04 Remote Monitoring Facility 
- 05 All India Service Network 
- 06 CRM Based Support System ensuring Responsiveness & Reliability of Service 

## Dispatches:



Export Shipment



Domestic Supply

# OUR CLIENTS



## Our Global Presence



- 📍 UAE
- 📍 NIGERIA
- 📍 ZIMBABWE
- 📍 UGANDA
- 📍 YEMEN
- 📍 OMAN
- 📍 LEBANON
- 📍 AFGHANISTAN
- 📍 NEPAL
- 📍 BHUTAN



# SunGarner®

## SUNGARNER ENERGIES LIMITED

### Corporate & Factory :

Plot No. 113, Udyog Kendra -II, Sector Ecotech -III ,  
Greater Noida, Gautam Budh 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:

