

# APNI BIJLI BANAO, EXPERT KO BULAO.

SOLAR KE SMART SOLUTIONS GHAR LE AAO!

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**Livguard**  
Solar



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## ABOUT LIVGUARD

Livguard Energy Technologies Pvt. Ltd. (LETPL) one of India's leading providers for power energy solutions is poised to transform the world with its cutting edge technology, in solar solutions, power back-up, automotive solutions, & e-rickshaw batteries. Livguard was founded in the year 2014 and is a part of the SAR Group which has been serving the nation for the past three decades. With our technologically advanced toolkit and trained technicians we have achieved the customer's trust and faith in our products and services. This has helped us reach the 4,000 crore company milestone in a short period of time.

## LIVGUARD SOLAR PRODUCT RANGE

### SOLAR PANEL

40 WATT - 545 WATT



### SOLAR MANAGEMENT UNIT

30 A - 50 A



### SOLAR CHARGE CONTROLLER

10 A - 50 A



### SOLAR BATTERY

40 AH - 240 AH



### SOLAR UPS

700 VA - 2200 VA



### PWM POWER CONDITIONING UNIT

3.5 KVA - 10 KVA



### SOLAR UPS MPPT

1000 VA - 2500 VA



### MPPT POWER CONDITIONING UNIT

3 KVA - 15 KVA



### GRID INTERACTIVE HYBRID

- 1-PHASE : 3KVA - 5KVA
- 3-PHASE : 10KVA - 30KVA





# SOLAR PANEL

Livguard Solar Panels are available in Poly-crystalline and Mono PERC PV cells, with IEC compliance ranging for 40Wp - 545Wp panels. Our Panels are ideally suited for rooftop and agricultural applications.

**12\*** Years Product Warranty

**25** Years Performance Warranty

### Positive Power Tolerance

- Ensures full energy harvesting
- Ensures better return on investment



### Excellent Performance in low light

- High quality transparent glass
- Glossy EVA to capture maximum solar energy



### Suitable for Extreme Weather

- Tempered glass withstands dynamic wind load of 2400 Pa & snow load of 5400 Pa
- Multi EVA capsulation



### Potential-Induced Degradation (PID) Resistance Technology

- For longer life and lower degradation

## MODULE 12V

| Model Name                              | LGV12V40 | LGV12V50 | LGV12V75 | LGV12V100 | LGV12VS150 | LGV12V180M |
|---|----------|----------|----------|-----------|------------|------------|
| Power (pm) in Watts (Nominal)           | 40       | 50       | 75       | 100       | 150        | 180        |
| No. of Cells                            | 36       | 36       | 36       | 36        | 32         | 32         |
| Rated Module Voltage                    | 12       | 12       | 12       | 12        | 12         | 12         |
| Voltage at Maximum Power (Vmp) in Volts | 17.5     | 18       | 18       | 18        | 16.9       | 18.01      |
| Current at Maximum Power (Imp) in Amps  | 2.46     | 2.78     | 4.17     | 5.66      | 8.9        | 9.99       |
| Open Circuit Voltage (Voc) in Volts     | 21       | 22       | 22       | 22        | 21.6       | 22.12      |
| Short Circuit Current (Isc) in Amps     | 2.54     | 3.28     | 4.67     | 6.06      | 9.2        | 10.37      |
| Maximum System Voltage (Voc)            | 600      | 600      | 600      | 600       | 1000       | 1000       |
| Module Efficiency $\eta$ (%)            | >12%     | >12%     | >14%     | >14%      | >16%       | >18%       |

STC: Irradiance 1000W/M<sup>2</sup>, Ambient Temperature 25°C, Air Mass 1.5, Measuring Tolerance  $\pm$  3%

## MODULE 24V

| Model Name                     | LGV24VS335W | LGV24VS400WM | LGV24VS530WM | LGV24VS535WM | LGV24VS540WM | LGV24VS545WM |
|--------------------------------|-------------|--------------|--------------|--------------|--------------|--------------|
| Power in Watts (Nominal)       | 335         | 400          | 530          | 535          | 540          | 545          |
| No. of Cells                   | 72          | 72           | 144          | 144          | 144          | 144          |
| Rated Module Voltage           | 24V         | 24V          | 24V          | 24V          | 24V          | 24V          |
| Voltage at Maximum Power (Vmp) | 38.3        | 41.2         | 41.36        | 41.43        | 41.81        | 42.02        |
| Current at Maximum Power (Imp) | 8.75        | 9.72         | 12.82        | 12.92        | 12.92        | 12.98        |
| Open Circuit Voltage (Voc)     | 46.5        | 49.79        | 49.32        | 49.47        | 49.81        | 50.14        |
| Short Circuit Current (Isc)    | 9.35        | 10.31        | 13.7         | 13.81        | 13.51        | 13.55        |
| Maximum System Voltage(VDC)    | 1000        | 1500         | 1500         | 1500         | 1500         | 1500         |
| Module Efficiency $\eta$ (%)   | 17.35       | 20.17        | 20.54        | 20.94        | 20.94        | 21.12        |

STC: Irradiance 1000W/M<sup>2</sup>, Ambient Temperature 25°C, Air Mass 1.5, Measuring Tolerance  $\pm$  3%

## WARRANTY & CERTIFICATION

|                       |   |
|-----------------------|---|
| Product Warranty*     | 5 years for 12V Modules; 12 Years for 24V Modules                                     |
| Performance Warranty* | 25 Years (90% module efficiency after 10 years, 80% module efficiency after 25 years) |
| Certificates          | IS:14286, IS-61215, IS-61730  |

\*Refer solar module warranty card document

Technical Parameters are subject to change without any prior notice

# LIVSERV SERVICE NETWORK

NOW SERVING COUNTLESS STATES ACROSS THE COUNTRY



**650+**  
Trained Service Engineers



## On-Site\* Service Facility

- ◆ Solar Panel, UPS, PCU, SCC & SMU: Customer End
- ◆ Battery: CSC location



**40+** Service centre locations Pan India



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