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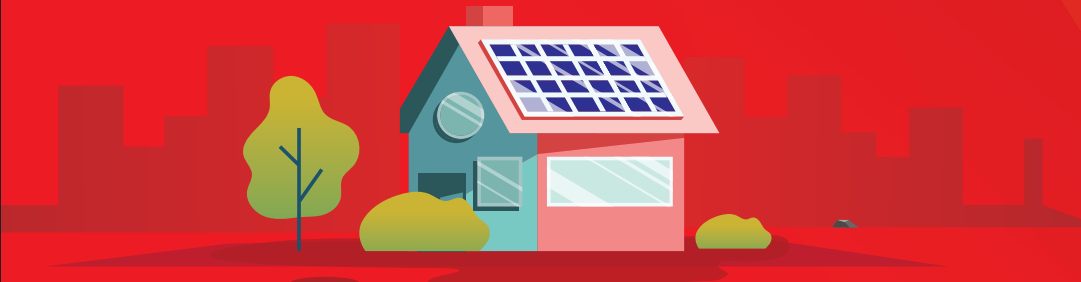
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Livguard Energy Technologies Private Limited
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Gurgaon-122016, Haryana, India.
www.livguard.com



EXPERT KO BULAO, APNI BIJLI BANAQ.

SOLAR POWER KE SMART
SOLUTIONS GHAR LE AAO!



Trained Technicians



Advanced Tool Kit



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 1,000 crore company milestone in a short period of time.

LIVGUARD SOLAR PRODUCT RANGE

SOLAR PANEL

40 WATT – 400 WATT



SOLAR MANAGEMENT UNIT

30 A - 50 A



SOLAR CHARGE CONTROLLER

10 A – 50 A



SOLAR UPS

900 VA – 2000 VA



PWM POWER CONDITIONING UNIT

3.5 KVA – 10 KVA



MPPT POWER CONDITIONING UNIT

3.5 KVA – 15 KVA



SOLAR BATTERY

40 AH – 200 AH



SOLAR STREET LIGHT

9 WATT – 12 WATT



SOLAR POWER GENERATING SOLUTIONS

- Light duty home solutions.
- Heavy duty home solutions.
- Existing inverter solarization solution.
- DC solution.





SOLAR PANEL

Livguard Solar Panels are polycrystalline/mono perc PV panels, IEC compliant having range from 40 W – 400 W. Our Panels are ideally suited for rooftop and agricultural applications.

5 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

Model Name	LGV12V40	LGV12V50	LGV12V75	LGV12V100	LGV12V165	LGV24V325	LGV12V180M
Power (pm) in Watts (Nominal)	40	50	75	100	165	325	180
No. of Cells	36	36	36	36	36	72	32
Rated Module Voltage	12	12	12	12	12	24	12
Voltage at Maximum Power (Vmp) in Volts	17.5	18	18	18	18.30	37.8	18.01
Current at Maximum Power (Imp) in Amps	2.46	2.78	4.17	5.66	9.02	8.6	9.99
Open Circuit Voltage (Voc) in Volts	21	22	22	22	22.30	46.2	22.12
Short Circuit Current (Isc) in Amps	2.54	3.28	4.67	6.06	9.57	9.13	10.37
Maximum System Voltage (Voc)	600	600	600	600	1000	1000	1000
Module Efficiency η (%)	>12%	>12%	>14%	>14%	>16%	>16%	>18%
STC: Irradiance 1000W/M ² , Ambient Temperature 25°C, Air Mass 1.5, Measuring Tolerance \pm 3%							

MECHANICAL DATA

Junction Box		IP65 rated with Bypass diodes					IP67 / IP68 rated with 3 Bypass diodes	IP65 rated with Bypass diodes
Application Class		Class A (Safety Class II)						
Glass		High Transmission Low Iron Tempered Solar Glass						
Cells		Poly Crystalline Solar Cells/Mono Perc Solar Cells						
Cell Encapsulate		Ethylene Vinyl Acetate (EVA) - FC/UFC						
Back sheet		Composite Film - White						
Frame		Silver Anodized Aluminium Frame with Twin Wall Profile						
Mechanical Load Test		Sustain Heavy Wind & Snow Loads (2400 Pa & 5400 Pa or 550 Kg/m2)						
Max Series Fuse Rating		6A	6A	6A	10A	15A	20A	20A
Module Weight (Kg)		4	4.1	5.4	7.6	10.6	21.5	21.5
Dimension in (mm)	L	435	550	775	1010	1495	1970	1345
	W	670	670	670	670	670	990	680
	H	34	34	34	34	35	40	35

OPERATING CONDITIONS

Operating Temperature	-40°C to + 85°C	-40°C to + 85°C	-40°C to + 85°C
TC of Short Circuit Voltage (α)	0.057%/°C \pm 0.01	0.052%/°C \pm 0.01	0.048%/°C \pm 0.01
TC of Open Circuit Voltage (β)	-0.31%/°C \pm 0.02	-0.31%/°C \pm 0.02	-0.28%/°C \pm 0.02
TC of Power (γ)	-0.41%/°C \pm 0.02	-0.40%/°C \pm 0.02	-0.38%/°C \pm 0.02

WARRANTY & CERTIFICATION

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

SOLAR POWER GENERATING SYSTEMS

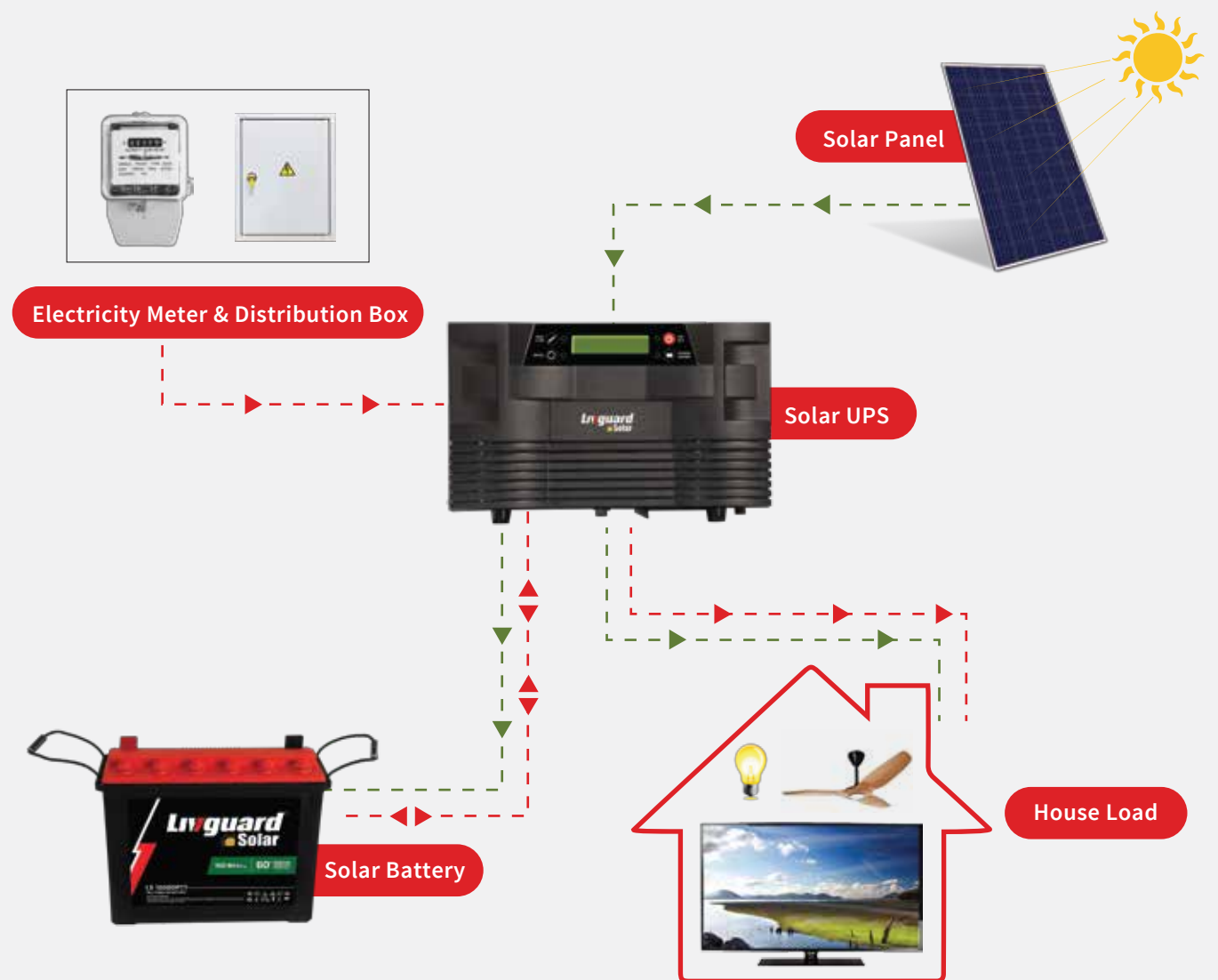
LIGHT DUTY HOME SOLUTION

SOLAR COMPONENTS

SOLAR PV PANEL- 12 V:100 W, 180 W | 24 V: 325W, 330W, 400W

SOLAR UPS- 12 V: 900 VA | 24 V: 1500-2000 VA

SOLAR BATTERY- 100 AH, 135 AH, 150 AH, 165 AH, 180 AH, 200 AH



Note: For the above solution, extra BOS will be required for final installation & commissioning.

BOS: Cable, connector, ACDB, structure etc.

HEAVY DUTY HOME SOLUTION

SOLAR COMPONENTS

- SOLAR PV PANEL- 24 V: 325W, 330W, 400W | 48V: 3.5KVA , 5 KVA
- SOLAR MPPT/PWM PCU- 48V: 5KVA | 96V/120V: 7.5 KVA | 120V: 10KVA | 240V: 15KVA
- SOLAR BATTERY- 100AH, 135AH, 150AH, 165AH, 180AH, 200AH



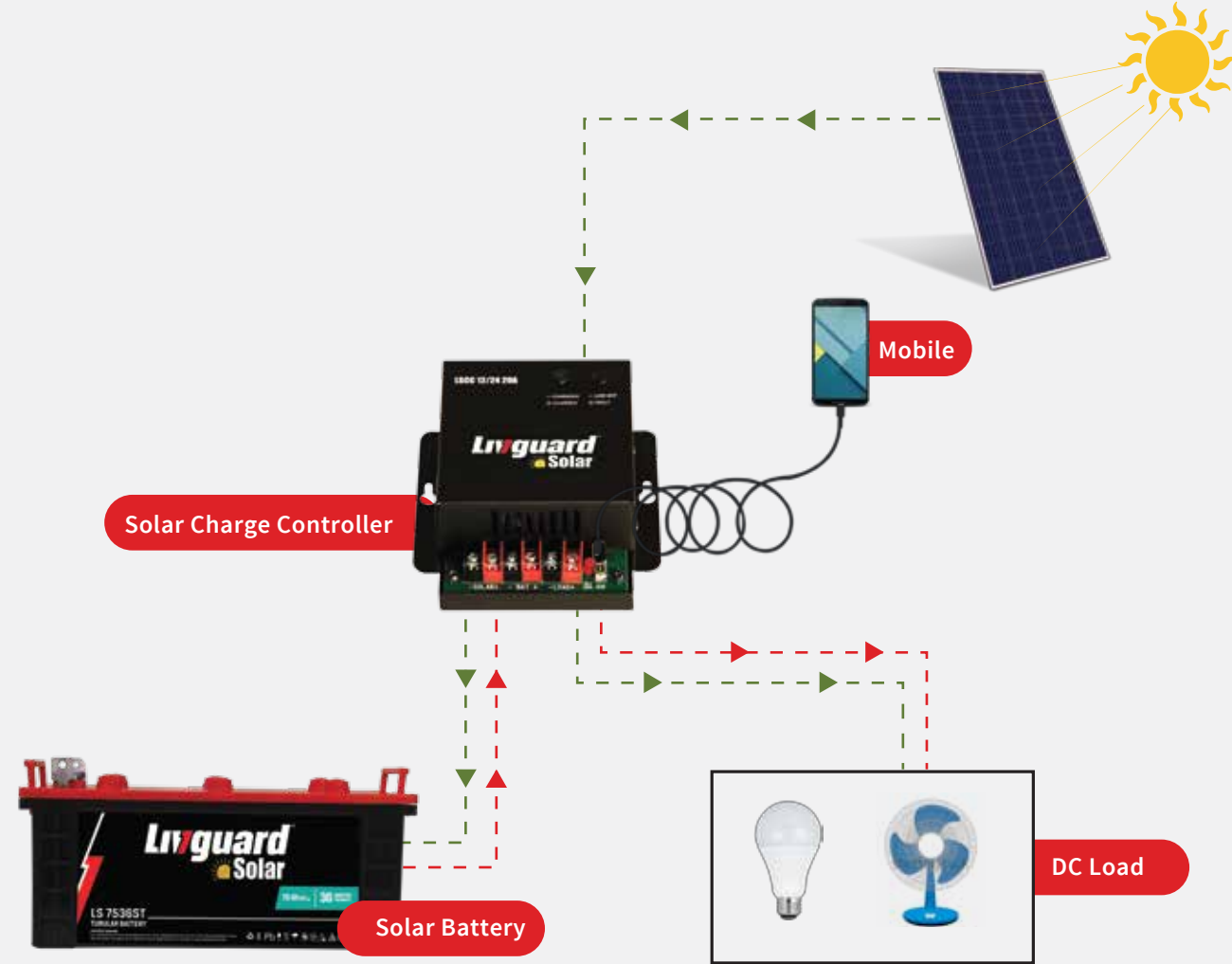
Note: For the above solution, extra BOS will be required for final installation & commissioning

BOS: Cable, Connector, ACDB, DCDB, structure etc.

DC SOLUTION

SOLAR COMPONENTS

- SOLAR PV PANEL- 12V: 40W, 50W, 75W, 100W, 180W | 24V: 325W, 330W, 400W
- SOLAR CHARGE CONTROLLER- 12/24V: 10-20AMPS. | 24/36/48V: 50AMPS.
- SOLAR BATTERY: 40AH, 75AH, 100AH, 135AH, 150AH, 165AH, 180AH, 200AH



Note: For the above solution, extra BOS will be required for final installation & commissioning

BOS: Cable, connector, structure etc.

EXISTING INVERTER SOLARISATION SOLUTION

SOLAR COMPONENTS

SOLAR PV PANEL- 12V: 100W, 180W | 24V: 325W, 330W, 400W

SOLAR MANAGEMENT UNIT- 12/24V: 30AMPS. | 24/36/48V: 50AMPS.

SOLAR BATTERY- 100AH, 135AH, 150AH, 165AH, 180AH, 200AH



Note: For the above solution, extra BOS will be required for final installation & commissioning

BOS: Cable, connector, ACDB, structure etc.

SOLAR STREET LIGHT SOLUTIONS

SOLAR COMPONENTS

SOLAR PV PANEL- 12V: 40W, 50W, 75W, 100W

SOLAR STREET LIGHT- 9W & 12W

SOLAR BATTERY- 40AH, 75AH, 100AH



Note: For the above solution, extra BOS will be required for final installation & commissioning

BOS: Cable, connector, Pole, Battery box etc.

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NOW SERVING COUNTLESS STATES ACROSS THE COUNTRY



380+
Trained Service Engineers



On-Site* Service Facility

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



50+ Service centre locations Pan India



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