



**SOLAR SYSTEM INTEGRATORS**  
**SOLAR PANELS**  
**SOLAR BOS PRODUCTS**  
**EPC SERVICES**

[www.rgl-international.com/energies](http://www.rgl-international.com/energies)





# ABOUT US

We at RGL Export LLP are the Solar System Integrators, Exporters and Suppliers for range of Solar Products and LED products. We cover the entire value chain for any Solar Solutions.

Our manufactures are the India's Oldest Solar Company with combined 70+ man years of experience. India's Oldest SP 1A rated solar organization from CRISIL and SMERA. We provide the complete assurance for quality to our customers. We emphasize on quality aspect of the entire range of Solar Products or Energy Devices. We make sure that latest and advanced technology in addition to high grade raw material is used in the product manufacturing process. For this, we have team of Quality Analyst. They monitor every stage of procurement of raw material and final dispatch of finished products. To become the industry leader in the full-service design, installation and financing of solar electric systems for residential and commercial customers, helping them achieve their goal of energy independence by offering the most competitive and efficient turnkey Solar Solutions.

## Quality Assurance:

Being a customer centric company, we always emphasize on the quality aspects if the entire range of the Solar Energy Devices. We always strive to implement the latest and advances technology in our working and production methodology to deliver the best-in-class products to our esteemed clients across the globe. Therefore, the entire supply chain and manufacturing process is followed by the strict quality procedures, right from the raw material procurement to final dispatch of the consignments, is monitored by our Quality Department.

Our Components are checked based on following Quality parameters.

- High Voltage Test
- Load Test
- No Load Current Test
- Efficiency Test

## Accreditations:



# **SOLAR SYSTEM INTEGRATORS SUPPLIER**

## **PRODUCT RANGE**

- **Solar Panels**
- **Solar Photovoltaic Modules**
- **Solar Isolators Boxes**
- **PV Combine Boxes**
- **Solar Garden Lights,**
- **Solar Streets Lights**
- **Solar Water Heater**
- **Campaign Lights and accessories**
- **Agricultural Solar Water Pumps**
- **Solar Home Light Systems**
- **All in One Integrated Street Lights**
- **High mast Lights - Solar & LED**
- **Solar Lantern**
- **Solar Rooftop : Residential and Industrial Utility Scale Projects**



# Solar Water Pumping System



**1 HP to 10 HP AC/DC PUMP**



**Our solar powered water pumps are a low cost solution enabling farmers to farm on farming completely with out having any kind of water scarcity on their farms.**

## **Applications:**

- **Drip Irrigation & Sprinkler**
- **Drinking Water Supply**
- **Rural Water Supply For Ranches**
- **Cabins And Cottages**
- **Dewatering**
- **Livestock Watering Fountains**

**Our range : 1.Surface Water Pumps Surface pumps supports varied applications like field irrigation or supplying potable water to your communities, while drawing water from nearby water sources like lakes, ponds, canals or rivers.**

**2.Submersible Water Pumps Submersible pumps supports varied applications like field irrigation or supplying potable water for your communities, while drawing water from underground water sources like bore-wells or sumps.**



# Solar Water Heating System

**100 LPD TO 1000 LPD**



**Our Solar water heaters provide home owners and businesses one of the most efficient and cost effective methods for water heating. Ideal for Residential, Institutional and Industrial solar heating applications**

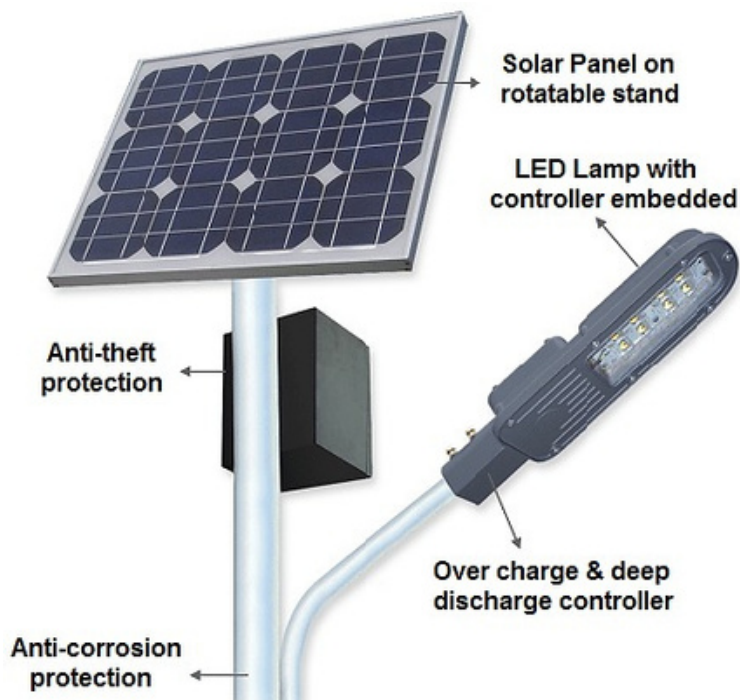
**We provide solar water heating systems from 100 LPD to 1000 LPD. We also provide the arrangement of heaters in the system to solve the problem of hot water in rainy days or monsoon season.**

**Our solar systems are MNRE approved which give you guarantee of quality, safety and standard product.**

# SOLAR STREET LIGHT



## 9w-60w Solar Street Light



### PRODUCT DETAILS:

- Brand - RGL Energy
- MNRE Approved
- IP Rating - IP66
- LED - Edison / Osram
- Lumens Output - > 120 per watt
- Input Voltage - 12 V
- Body Type Aluminum Di- Cast
- Ambient Temp - 0 Deg C to +45 Deg C
- Driver Efficiency > 90%
- Customize Auto Dimming Feature
- Battery Over charge, Battery Deep, Discharge Reverse Battery
- Automatic Dusk to Down

LED Based Solar Street Lighting System							
Model	EESL7WDC	EESL9WDC	EESL12WDC	EESL18WDC	EESL24WDC	EESL30WDC	EESL40WDC
Light Output in Lumens	840	1080	1440	2160	2880	3600	4800
Nominal Power	7W	9W	12W	18W	24W	30W	40W
Driver Efficiency	> 90%						
Battery	12V-40Ah	12V-40Ah	12V-75Ah	12V-75Ah	12V-100Ah	12V-150Ah	12V-180Ah
SPV Module	12V-40W	12V-50W	12V-75W	12V-100W	12V-120W	12V-180W	12V-200W
Autonomy	3 Days						
Charge Controller	Fully Microcontroller Based MPPT Charge Controller						
Function Of Light	Automatic Dusk to Dawn Operation						
Display Indication	LED Type (Green LED : Battery Charging, Red LED: Battery Low)						
Pole	5 Mtr. GI				6 Mtr. GI		
Battery Box	Metal/ABS						
Luminary Body type	High Pressure Aluminum Di-Cast						
Protections	Battery Over Charge; Battery Deep Discharge; Reverse Battery						
Ambient Temperature	-0°C to +45°C						
Additional Feature	Customized auto dimming feature to save battery power						



# Integrated All in One LED Street Light



## 9w-30w Street Lights



**PRODUCT DETAILS:**

- Brand- RGL Energy
- lumens Output >120pw
- Space between Light Poles Sm- 10m
- Lighting Type LED
- Light Backup time 2 Days
- Battery Deep Discharge Protection ,•Over charge protection, charging and Battery Indication
- IP Rating IP65
- Led Driver Efficiency- > 90%

### Technical Specifications : All in One Solar Street Light

Description	9W LED	12W LED	18W LED	24 w LED	30W LED
Solar Panel	40Wp Solar Panel - Poly Crystalline	50Wp Solar Panel Poly Crystalline	60 Wp Solar Panel Poly Crystalline	75Wp Solar Panel Poly Crystalline	100 Wp Solar Panel Poly Crystalline
Battery Capacity	11.1V, 10.4Ah Lithium-ion Battery, 12.8V, 10.4Ah LiFePO4	11.1V, 12Ah Lithium-ion Battery, 12.8V, 12Ah LiFePO4	1 11.1V, 20Ah Lithium-ion Battery, 12.8V, 18Ah LiFePO4	11.1V, 26Ah Lithium-ion Battery, 12.8V, 26Ah LiFePO4	11.1V, 32Ah Lithium-ion Battery, 12.8V, 32Ah LiFePO4
Lumen Output / Watt	120 Lumen / Wp				
Operation	Light will glow in full bright mode for first 4 Hrs. After 4Hrs. Light will dim to 33% power and motion sensor will activate for detection of motion. If any motion is detected in 12Marea around the Light, it will glow in full mode for 2 min., After that it will again come to 33% power				
LED Driver Efficiency	>90%				
LED Light Operating Voltage Range	9.6V - 12.6V				
Load Cut-off Voltage for Battery Deep Discharge Protection	9.6V				
Space Between Light Poles	10m - 15m		15m - 20m		20m - 30m
Light Backup Time	2 Days		2 Days		1.5 Days
Net Weight	9 Kg	10 Kg	13.5 Kg	19 Kg	22 Kg
Protection Provided	Battery deep discharge protection, Over charge Protection, Load open Protection, Charging and battery indication, Reverse current flow Protection, Temperature compensation, Short circuit protection				
Packaging Contains	Integrated light with SPV, Mounting bracket, U-Clamp, Nut - bolts				

# SEMI INTEGRATED LED STREET LIGHT 2 IN 1



9w-40w Street Lights



## PRODUCT DETAILS:

- Brand - RGL Energy MNRE /
- TUV / BIS Approved 2-5Years of Warranty Input Voltage 12.8V
- LED - Edision/Osram Lumen Output-140 per watt Lighting
- Color Cool Daylight Body High Pressure Aluminum Di- Cast IP66,LM79, LM80 Driver
- Efficiency > 90% Protections Surge& over voltage Protection Color Temperature 5000K-6500K Auto Dusk to Down
- MPPT Technology Controller Dimming Facility

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# Solar Battery



## Tubular Type

### Tubular Battery

To know about the advantages, we should focus on the advanced design specifications of this inverter battery. It has a unique tubular gauntlet /Nat positive plate design, which offers cyclic stability, longer life, and higher capacity than flat plate batteries. It is made using superior active material & special grid alloy that help the battery to recover fast from deep discharge. Float vent plugs are provided for electrolyte level indication. The battery is covered with HDPE material caps which enhances the overall battery life. It is a C10 rated solar battery designed for better performance.

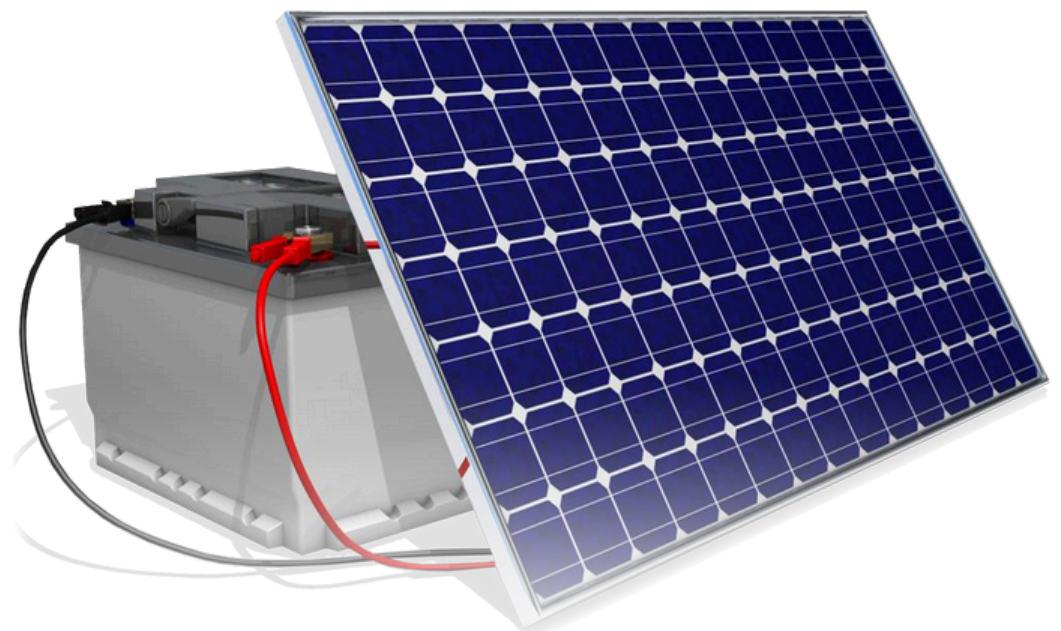
### Energy Expert

**Backup Time : 3.15 HRS - 5.5 HRS**

**Length : 508**

**Width : 190**

**Height : 412**



# AC LED STREET LIGHT



## 30w-300w AC LED Street Light



### PRODUCT DETAILS:

- Brand - RGL Energy BIS /
- PWD Approved 2-5 Years of Warranty Input Voltage 100V-320V LED - Edision/Osram Lumen Output- 140 per watt Frequency -50 HZ Power Factor > .95 CRI >85%
- Lighting Color Cool Daylight
- Body High Pressure Aluminum Di- Cast IP66, LM79, LM80 Driver Efficiency > 90% Protections Surge & over voltage Protection Color Temperature 5000K-6500K Auto Dusk to Down
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# LED FLOOD LIGHT

30w-300w AC LED Flood Light



## PRODUCT DETAILS:

- Brand - RGL Energy BIS /
- PWD Approved 2-5 Years of
- Warranty Input Voltage 100V-
- 320V LED - Edision/Osram
- Lumen Output-140 per watt
- Frequency -50 HZ Power Factor > .95 CRI >85%
- Lighting Color Cool Daylight
- Body High Pressure
- Aluminum Di- Cast IP66,
- LM79, LM80 Driver
- Efficiency> 90% Protections
- Surge & over voltage
- Protection Color Temperature
- 5000K- 6500K Auto Dusk to Down
- 
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# Solar PV Modules



## 40w-335w PV Modules



**PRODUCT DETAILS:** •Brand- RGL Energy •All Electrical Data Measured at Standard Testing Condition (stc) •Irradiance 1000 w/m<sup>2</sup>

•Temperature 25c •5-year product workmanship warranty •90% output performance warranty for 10 years •80% output performance warranty for 25 years

**Note:**

- The dimension of module can be changed without prior information. So the customers need to confirm the dimension during finalization of order.
- All Electrical data measured at standard testing condition (STC)
- Irradiance 1000W/m<sup>2</sup>
- Temperature 25°C

TYPE	Electrical Parameters						Electrical Parameters					
	EE40Wp	EE50Wp	EE75Wp	EE100Wp	EE120Wp	EE150Wp	EE200Wp	EE250Wp	EE300Wp	EE320Wp	EE330Wp	
PMAX IN WATTS (NOMINAL)	40	50	75	100	120	150	200	250	300	320	330	
OPEN CIRCUIT vOLTAGE (VOC) IN VOLT	21	21.6	21.5	21.6	22	22	22	37.38	43.64	44	44.20	
sHORT cIRCUIT CURRENT (ISC) IN amp	2.54	3.08	4.59	6.02	7.17	8.70	12.23	8.57	8.33	8.85	8.95	
Voltage at maximum Power(imp) in volt	17	18.0	17.89	18.0	18	18	18.0	30.82	37.60	38.50	8.60	
Currentat Maximum Power (imp) In amp	2.36	2.83	4.21	5.75	6.67	8.35	11.24	8.14	7.99	8.70	8.55	
maximum Style Voltage	1000VDC	1000vdc	1000VDC	1000VDC	1000VDC	1000VDC	1000VDC	1000v	1000VDC	1000VDC	1000VDC	
Solar Cell per Module (Units)	36	36	36	36	36	36	72	60	72	72	72	

TYPE	Mechanical Parameters						Mechanical Parameters					
	466x666x34	595x665x35	838x665x35	1086x665x35	1086x665x35	466x666x34	1086x665x35	1086x665x35	1086x665x35	1961x991x40	1961x991x40	
LengthxWidthxThickness(LxWxT) in mm	466x666x34	595x665x35	838x665x35	1086x665x35	1086x665x35	466x666x34	1086x665x35	1086x665x35	1086x665x35	1961x991x40	1961x991x40	
Cable and Connectors	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Junction Box Protection Rating	ip-65 Rated						ip-65 Rated		IP-67 rated			
Frame	Anodized Aluminium Frame (Double Walled)						Anodized Aluminium Frame (Double Walled)					
Weight (KG)	3.97	4.5	4.5	10.2	9.97	10.2	14	19.1	24	25	26	



# Solar Charger Controller



## PRODUCT DETAILS:

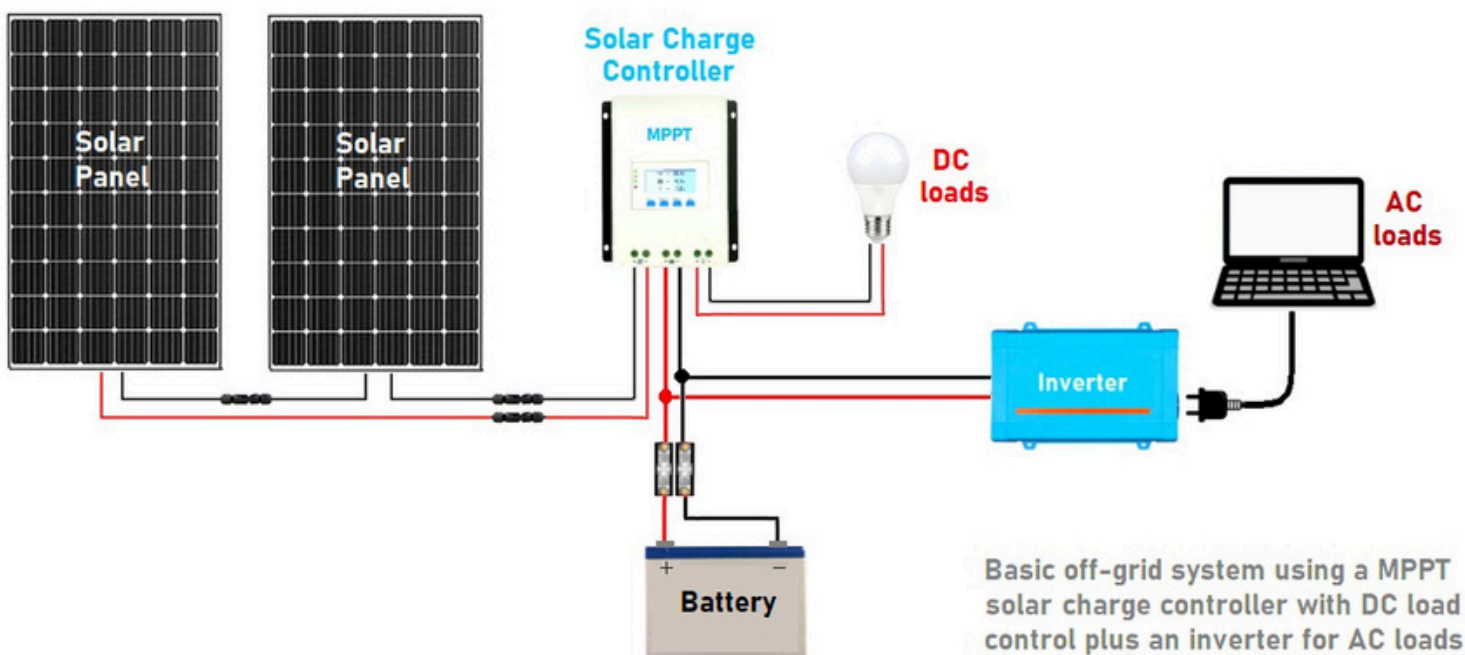
**Available System Voltage range:**12V/24V/48V...192V

**Rated Current** 6Amp/10Amp/20Amp..50Amp

**Charger Type:** PWM

## System Protection:

- Reverse Battery
- Short Circuit
- Over Charging
- Over Voltage and Current





# Power Plant On Grid

On-grid solar power system is a solar power generation system where it is connected to the utility grid. The electricity produced by the system is routed to the grid from where it is used to run the various appliances. The installation of the same is also fuss-free and easy to maintain

## **SOLAR 3.3KTL-X**

Integrated with DC switch  
Super large 4-inch LCD  
Smart monitoring, RS485,Wifi/Ethernet/GPRS (optional)  
Over/under voltage, over current, over temperature, Anti-islanding and other multiple protections  
Max. efficiency up to 98.3%  
Built-in DRM port and logic

## **SOLAR 4.4KTL-X**

Integrated with DC switch  
Super large 4-inch LCD  
Smart monitoring, RS485,Wifi/Ethernet/GPRS (optional)  
Over/under voltage, over current, over temperature, Anti-islanding and other multiple protections  
Max. efficiency up to 98.3%  
Built-in DRM port and logic

## **SOLAR 5KTL-X**

Integrated with DC switch  
Super large 4-inch LCD  
Smart monitoring, RS485,Wifi/Ethernet/GPRS (optional)  
Over/under voltage, over current, over temperature, Anti-islanding and other multiple protections  
Max. efficiency up to 98.3%  
Built-in DRM port and logic

## **SOLAR 5.5KTL-X**

Integrated with DC switch  
Super large 4-inch LCD  
Smart monitoring, RS485,Wifi/Ethernet/GPRS (optional)  
Over/under voltage, over current, over temperature, Anti-islanding and other multiple protections  
Max. efficiency up to 98.3%  
Built-in DRM port and logic

## **SOLAR 6.6KTL-X**

Integrated with DC switch  
Super large 4-inch LCD  
Smart monitoring, RS485,Wifi/Ethernet/GPRS (optional)  
Over/under voltage, over current, over temperature, Anti-islanding and other multiple protections  
Max. efficiency up to 98.3%  
Built-in DRM port and logic

## **SOLAR 8.8KTL-X**

Integrated with DC switch  
Super large 4-inch LCD  
Smart monitoring, RS485,Wifi/Ethernet/GPRS (optional)  
Over/under voltage, over current, over temperature, Anti-islanding and other multiple protections  
Max. efficiency up to 98.3%  
Built-in DRM port and logic

## **SOLAR 11KTL-X**

Integrated with DC switch  
Super large 4-inch LCD  
Smart monitoring, RS485,Wifi/Ethernet/GPRS (optional)  
Over/under voltage, over current, over temperature, Anti-islanding and other multiple protections  
Max. efficiency up to 98.3%  
Built-in DRM port and logic

## **SOLAR 12KTL-X**

Integrated with DC switch  
Super large 4-inch LCD  
Smart monitoring, RS485,Wifi/Ethernet/GPRS (optional)  
Over/under voltage, over current, over temperature, Anti-islanding and other multiple protections  
Max. efficiency up to 98.3%  
Built-in DRM port and logic





# Power Plant Off Grid

Solar Power Conditioning Unit (PCU) is an integrated system consisting of a solar charge controller, inverter and a Grid charger. It provides the facility to charge the battery bank through either a Solar or Grid/DG set. The PCU continuously monitors the state of battery voltage, solar power output and the load. Due to constant usage of power, if the battery voltage goes below a set level, the PCU will automatically transfer the load to the Grid/DG power and also charge simultaneously. The PCU always gives preference to the solar power and will use Grid / DG power only when the solar power / battery charger is unable to meet the load requirement.

**3.5KVA/48V SOLAR PRIORITY** Solar Power is of first priority while charging. This means when solar power is available. only batteries will be charged with it irrespective of grid. **INTELLIGENT CHARGING SHARING** Uses maximum solar power to charge the batteries along with required grid, if needed. Concludes the reduction in electricity bill **DSP BASED TECHNOLOGY** Works on intelligent UPS management system. Provides dynamic output voltage regulation, optimize system efficiency and communication with other equipments.

**7.5KVA/120V SOLAR PRIORITY** Solar Power is of first priority while charging. This means when solar power is available. only batteries will be charged with it irrespective of grid **INTELLIGENT CHARGING SHARING** Uses maximum solar power to charge the batteries along with required grid, if needed. Concludes the reduction in electricity bill **DSP BASED TECHNOLOGY** Works on intelligent UPS management system. Provides dynamic output voltage regulation, optimize system efficiency and communication with other equipments.

## 5KVA/48V

### COMPATIBLE WITH GENERATORS

Wide window of frequency range between 42-65Hz makes MERPHY totally compatible with local generators

### DT-6S STAGE BATTERY CHARGING TECHNOLOGY

6 Stage Battery Charging Technology gives you highest battery charging efficiency in the industry which increases battery life by 30%

### TURBO CHARGING

Turbo charge mode not only charges faster but also provides reliable power backup.

## 5KVA/96V

### BYPASS SWITCH

This switch helps to bypass the electricity to mains whenever there is a failure in the inverter. This makes the system user-friendly and convenient.

### LCD NOTIFICATIONS

LCD both display icons are provided for better indications and alerts.

### HIGHER BATTERY CHARGING EFFICIENCY

Smoothly charges battery with turbo charging technology without changing the system and load parameters

## 10KVA/120V

### COMPATIBLE WITH GENERATORS

Wide window of frequency range between 42-65Hz makes MERPHY totally compatible with local generators

### DT-6S STAGE BATTERY CHARGING TECHNOLOGY

6 Stage Battery Charging Technology gives you highest battery charging efficiency in the industry which increases battery life by 30%

### TURBO CHARGING

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