DUAK
Smart Energy Solution

DUAK ENERGY PVT. LTD.

DUAK Home Light System

A Compact Solar-Powered Lighting Solution for Homes, Villages and Remote Areas



- **Solar Powered**
- **Battery Storage**
- **LED Lighting** (1–4 Units)
- **Mobile Charging** (USB / 12V)
- **DC Fan** (Supported)
- **Safe & Reliable**

- **Zero Electricity Bill**
- **Easy Installation**
- **Overcharge & Deep Discharge Protection**

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Model 01

DUAK Home Light System

12V DC Solar Lighting System





Technical Specifications

System Voltage	12V DC
Battery Type	Lithium-ion / $LiFePO_4$ / SMF (as per configuration)
Solar Panel (Recommended)	3 – 40 Wp (Mono / Polycrystalline)
LED Lamps	1 – 4 Units (DC)
Mobile Charging	USB Output (5V DC) or 12V DC Socket
Charge Controller	In-built (Overcharge & Deep Discharge Protection)
Protection	DC MCB with Short-Circuit & Overload Protection
Dimensions (L × W × H)	420 × 330 × 110 mm
Net Weight	11 kg

Key Features

- Solar Powered & Energy Efficient
- Reliable Battery Backup
- High-Brightness LED Lighting
- Mobile Charging (USB / 12V)
- Overcharge & Deep Discharge Protection
- Compact, Rugged & Long-Lasting
- Easy Installation & Low Maintenance

System Includes (*Configurable*)



Solar Panel
(3 – 40 Wp)



LED Lamps
(1 – 4 Units)



Mobile Charging
(USB / 12V)



DC Fan
(Optional)

Applications

Rural Homes | Temporary Camps | Study Areas | Emergency Backup

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Model 02

DUAK Home Light System

12V DC Solar Lighting System



Technical Specifications

System Voltage	12V DC
Battery Type	Lithium-ion / $LiFePO_4$ / SMF (as per configuration)
Solar Panel (Recommended)	3 – 40 Wp (Mono / Polycrystalline)
LED Lamps	1 – 4 Units (DC)
Mobile Charging	USB Output (5V DC) or 12V DC Socket
Charge Controller	In-built (Overcharge & Deep Discharge Protection)
Protection	Short-Circuit, Overload & Reverse Polarity Protection
Dimensions (L × W × H)	250 × 108 × 180 mm
Net Weight	5.6 kg

Key Features

- Solar Powered & Energy Efficient
- Reliable Battery Backup
- High-Brightness LED Lighting
- Mobile Charging (USB / 12V)
- Overcharge & Deep Discharge Protection
- Compact, Lightweight & Portable

System Includes *(Configurable)*



Solar Panel (3 – 40 Wp)



LED Lamps (1 – 4 Units)

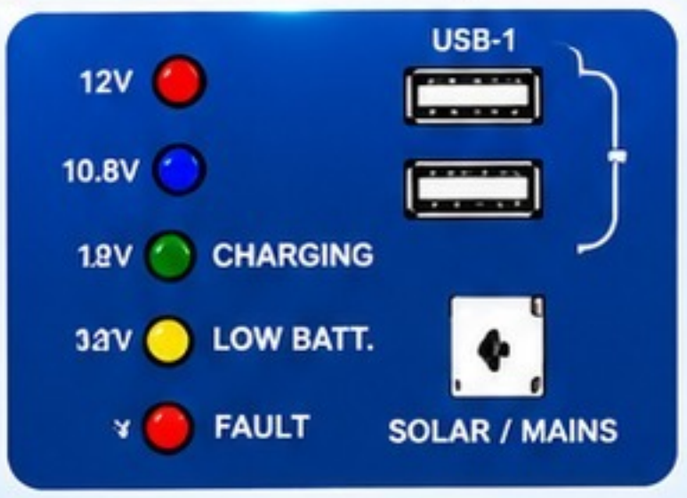


Mobile Charging (USB / 12V)



DC Fan (Optional)

Front Panel View



Applications

Rural Homes | Temporary Camps | Study Areas | Emergency Backup

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How It Works



Solar Panel
(3 – 40 Wp)

DUAK Home Light System
(Charge Controller + Battery Storage)

LED Lighting
(1 – 4 Units)

DC Fan
(Optional)

Mobile Charging
(USB / 12V)

Key Benefits

- Zero Electricity Bill
- Clean & Green Energy
- Reliable Backup Lighting
- Overcharge & Deep Discharge Protection
- Easy Plug-and-Play Installation
- Compact, Portable & Durable

Applications



Rural Homes
(Without Grid Access)



Temporary Housing / Remote Camps



Children's Study Areas



Emergency Backup

System Configurations (Options)

Basic	Standard	Premium
		
2 LED Lights 1 USB Charger 10 Wp Solar Panel	3 LED Lights 1 Fan 20 Wp Solar Panel	4 LED Lights Mobile Charger, Fan, Radio 40 Wp Solar Panel

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