

Ultramax GALAXY Smart DC-DC Charger 12V 30A

DCDUMX12V30A

Product Family:
Ultramax GALAXY

Product Type:
Buck-Boost DC-DC Charger (Non-isolated) **Features**



This image is of the product prototype.
Actual product may differ from this image.

| Features | Included? |
|-------------------------------------|-----------|
| Bluetooth Connection | True |
| WIFI Connection | True |
| Battery Capacity Estimation | True |
| Control over BLE | True |
| Control over WIFI | False |
| Control over CAN | True |
| Monitoring on BLE | True |
| Monitoring on WIFI | True |
| Over voltage protection | True |
| Over current protection | True |
| Different Power Saving Modes | True |
| Mobile App | True |
| Desktop App | False |
| Webpage | True |
| Auto Voltage Detection | True |
| Reverse Charging | True |

Product Description

| Parameters | | Description |
|------------------------------------|---------------------------------|--|
| Input Rating | Max Input Voltage | 17 V \pm 1 V (DC) |
| | Max Input Current | \leq 30 A (DC) |
| Output Rating | Max Output Voltage | 15 V (DC Voltage) |
| | Nominal Output Voltage | 12 V (DC) |
| | Max Output Current | 30 A (DC) |
| | Max Output Power | 450 W |
| | Nominal Output Power | 360 W |
| Connectivity | Bluetooth | Bluetooth LE v5 BLE Range \leq 100m |
| | WIFI | 802.11 b / g / n 2.4 GHz. Transfer Rate: 11Mb/s WIFI Range \leq 150m |
| | CAN | Standard Frame (500 kbit/s) |
| Updates | Firmware Updates | Update every 6 months through the web server |
| Battery Capacity Estimation | State of Charge (SoC) | Two-Mode (Estimation and Evaluation) |
| Protection | OV (Over voltage cutoff) | 32 V |

| | | |
|--------------------------|--------------------------|--------------|
| | OC (Over current cutoff) | 40 A |
| Support Batteries | Lead Acid Batteries | 14 V (Max) |
| | Lithium Batteries | 14.8 V (Max) |

The charger features an in-built WIFI and Bluetooth (BLE) connection system, various power-saving modes and reverse charging system. You can monitor & control the charger online & offline via your mobile phone by using our Android/IOS mobile app and webpage.

SOC Modes (Battery Percentage Estimation)

The SOC feature is added to optimise battery performance, enhance safety, and enable our customers to estimate the range of battery life available. SOC will be accurately determined only after the battery has been discharged or charged for at least one cycle. Otherwise, the SOC results will be estimated values.

CAN Bus

A Controller Area Network (CAN) Bus is included to monitor & control the charger. This facilitates seamless networking & synchronisation between complex systems like your inverters, solar energy systems, vehicles, industrial machinery, automation systems, etc. The bus speed will be 250 kbit/s.
