# CONTROLLER MODULE

HUNTERHEX®
Smart Green Climate and Energy Solutions

## CONTROLLER MODULE SL-601

## Key Features

- The standard 1U*2U structure can save more space.
- RS485 or Ethernet interface for PC connection locally or remote, and the stronger WEB server is recommended.
- Front panel LCD and four buttons for on-site using without PC
- Easily configurable file upload/download via USB or PC
- Easily update software via controller or USB or PC GPRS
- or 3G function is optional
- Advanced battery management, both Lead-acid battery
- and Lithium-battery
- Up to 86 digital outputs can be supported
- Up to 46 digital inputs can be supported
- Multiple LVDs control
- Battery mid-point monitoring
- Authority management and operator access levels
- protection
- Event log(up to 90000 records, totally)
- Alarm log(up to 10000 records)
- More user-selectable languages
- Programmable Logic Control(PLC) function, more
- flexible requirments can be supported

## Description

- The advanced SL-601 controller is a powerful and cost-effective module, developed for monitoring and controlling a wide range of DC power supply systems
- The controller can be used to communicate small, medium and large power systems. It has a friendly and easy to operate interface
- User can operate the system via the four front keys and the LCD-display
- User can monitor and control the system by using the SNMP via ethernet.

## Applications

- Wireless commu nication
- Broadband and network access
- Satellite communication ground
- station 3G,4G base station
- Other telecom applications

# CONTROLLER MODULE

## General

| | |
|---|---|
| Power Supply | 18Vdc to 75 Vdc |
| Temperature | Operating: -40 °C to +70 °C<br>Storage: -40°C to +85 °C |
| Humidity | Operating: ≤95% non-condensing<br>Storage: ≤99% non-condensing |
| Dimensions | 41.5H x 86.5W x 182.5D(mm)<br>(1U*2U) |
| Weight | 420g |
| Cooling | Natural |
| MTBF | >400, 000h(T ambient : 25 °C) |
| Languages | Multi language(English as defau lt) |

## Standards Comp liance

| | | |
|---|---|---|
| Safety | IEC 60950-1, EN 60950-1, UL 60950-1 | |
| EMC | Conducted Emission | EN55022 ClassB |
| | Radiated Emission | EN55022 ClassB |
| | Immunity to ESD | IEC61000-4-2 Level 3 |
| | Immunity to radiated magnetic | IEC61000-4-3 |
| | field Immunity to EFT | IEC61000-4-4 Level 3 |
| | Immunity to surge | IEC61000-4-5 Level 3 |
| | Immunity to conduction | IEC61000-4-6 Level 3 |
| Others | CE, TUV, ULdisturbance | |
| | ETSI EN 300 019-2(-1,-2,-3) | |
| | **ETSI EN 300 132-2** | |

## Features

### System

- Rectifiers management
- AC/DC over voltage/under voltage alarm and protect
- LLVD
- Fault alarm and protection
- Input & output voltage measurement
- Load current measurement
- Expansion component settings
- Authority management & password settings
- PLC settings
- Alarm level settings(Minor/Major/Critical)
- Event log(up to 90000 records, totally)
- Alarm log(up to 10000 records)

### Battery

- Battery float/boost charging BLVD
- Battery current measurement
- Battery temperature measurement
- Battery test and records
- Battery temperature compensation

### Rectifier

- Available information about each recti fier
- Rectifier c urrent measurement
- Rectifier input/output voltage
- measurement ECO
- Rectifier slot m anagement

### Hybird Energy Support

- PV
- Grid
- Battery
- DG
- Grid & battery priority adjustable

## Specification

| | Standard | Expansion |
|---|---|---|
| Analog Inputs | 1 bus voltage | Additional 4 via SC210 boards |
| | 1 load current | Additional 10 via SC210 boards |
| | | Additional 72 via SC340 boards |
| | 2 battery voltages | Additional 6 via SC210 boards |
| | 2 battery currents | Additional 6 via SC210 boards |
| | 2 load fuse alarms | Additional 6 via SC210 boards |
| | 2 battery mid-points | Additional 6 via SC210 boards |
| | 2 temperatures | Additional 10 via SC320-DI boards |
| Digital Inpu ts | 6 | Additional 40 via SC320-DI boards |
| Digital Outputs | 6 | Additional 80 via SC320-DO boards |
| LVDs | 2 | Additional 6 via SC210 boards |

## Communications Interfaces

| | |
|---|---|
| Physical | 4*RS485,1*Ethernet,<br>2*CAN,1*USB |
| Protocols | Http, Modbus, IPV4,<br>SNMP V1/V2c |
| Local user interface | 3 LEDs 4 buttons<br>2.4#LCD<br>(128X128dots) |