

# Embedded DC Power System

## E4860-I

### 1.Introduction:

E4860L-I is an AC/DC embedded power system with Excellent performance such as high power efficiency, intelligent battery management,remote management, wide range of AC input voltage, etc. The system can configure 2 pieces of 1U 2000W rectifier modules, and provides 4000W rated power output.E4860L-I can be embedded in 19-inch rack or cabinet.



### 2.Features:

- 1U rectifier: high density, high efficiency, excellent high temperature performance(full load @ 50℃、55℃)
- Wide operation temperature range of embedded power from -40℃ to 80℃
- Hot-swappable rectifiers provide easy installation and maintenance
- Standard installation structure design, adapt to various scenarios
- Compact design(only 1U in height), saving space and installation cost
- Excellent rectifier dormancy function helps increase system efficiency
- Intelligent battery management and protection help to prolong battery lifespan
- Support environmental signal monitoring and remote management through dry contact, serial interface or Ethernet interface(options)

### 3.Application Scenarios:

- Wireless base station
- Transmission network
- Communication network of enterprises

## 4.Specifications:

| Type            | E4860-I               |                                                                             |
|-----------------|-----------------------|-----------------------------------------------------------------------------|
| System          | Dimension             | 440mm(W)×350mm(D)×44mm(H)                                                   |
|                 | Weight                | ≤6.8kg                                                                      |
|                 | Cooling mode          | Natural cooling                                                             |
|                 | Installation mode     | Installed on 19-inch rack or inside the cabinet                             |
|                 | Cabling mode          | Front inlet and Front outlet                                                |
|                 | Maintenance mode      | Front maintenance                                                           |
|                 | Protection level      | IP20                                                                        |
|                 | Alarm interface       | FAN1,FAN2,DOOR,SMOKE                                                        |
| AC Distribution | Input mode            | 220VAC single phase                                                         |
|                 | Input capacity        | 1×32A/2P or terminal                                                        |
|                 | Output capacity       | NA                                                                          |
|                 | Input frequency       | 45~66Hz, rated value: 50Hz/60Hz                                             |
|                 | SPD                   | 20kA/40kA, 8/20μs                                                           |
| DC Distribution | Output voltage        | -42~-58VDC, rated value: -53.5VDC                                           |
|                 | Maximum capacity      | 4000W                                                                       |
|                 | Battery Fuse          | 2×30A                                                                       |
|                 | Load Fuse             | 2×40A                                                                       |
|                 | Fan power supply      | FAN1,FAN2                                                                   |
| Rectifier       | Input voltage         | 85VAC~300VAC, rated 220VAC                                                  |
|                 | Efficiency            | R482000H1 > 95%Peak, R482000E1 > 92%                                        |
|                 | Rated power           | 2000W(176~300VAC)                                                           |
|                 | Working temperature   | R482000H1 -40℃~+85℃(full load @ 55℃), R482000E1 -40℃~+80℃(full load @ 50℃), |
|                 | Dimension             | 70.3mm(W)×286mm(D)×42.5mm(H)                                                |
|                 | Weight                | ≤1.2kg                                                                      |
|                 | Cooling mode          | Forced cooling                                                              |
|                 | Power factor          | ≥0.99                                                                       |
|                 | THD                   | ≤5%                                                                         |
| Controller      | Signal input          | 1 Battery temp., 1 ambient temp, 1 smoke, 1 gate, 1 water, 2common DI       |
|                 | Alarm output          | 4 dry contact                                                               |
|                 | Communication port    | RS232/485, SNMP                                                             |
|                 | Display mode          | LCD                                                                         |
| Environment     | Operating temperature | -40℃~+80℃                                                                   |
|                 | Storage temperature   | -40℃~+70℃                                                                   |
|                 | Operating humidity    | 5%~95%(non-condensing)                                                      |
|                 | Altitude              | 0~2000m                                                                     |