

Embedded DC Power System

ETP48200-C5B6



Introduction

ETP48200-C5B6 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 4 pieces of 1U 50A high rectifier modules, and provides 200A rated current output. ETP48200-C5B6 can be embedded in 19-inch rack or cabinet.

Features

- 1U rectifier: high density(42.7W/inch³), high efficiency(>96%), excellent high temperature performance(fully out put below 55°C)
- Wide operation temperature range of embedded power from -40°C to 65°C
- Hot-swappable rectifiers provide easy installation and maintenance
- Standard installation structure design, adapt to various scenarios
- Compact design(only 5U 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



ETP48200-C5B6



R4850G2



SMU06C2

Application Scenarios

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

Specifications

| Type | ETP48200-C5B6 | |
|-----------------|-----------------------|---|
| System | Dimension | 482.6mm(W)×330mm(D)×5U(H) |
| | Weight | ≤20kg (without rectifiers) |
| | Cooling mode | Natural cooling |
| | Installation mode | Installed on 19-inch rack or inside the cabinet |
| | Cabling mode | Top inlet and top outlet |
| | Maintenance mode | Front maintenance |
| | Protection level | IP20 |
| AC Distribution | Input mode | 220/380VAC three-phase or 220VAC single phase |
| | Input voltage | 85-300Vac, rated voltage 220Vac |
| | Frequency | 45~66Hz, rated value: 50Hz/60Hz |
| | Input breakers | 1×63 A/3P |
| | SPD | 20/40kA, 8/20μs |
| DC Distribution | Output voltage | 42~-58VDC, rated value: -53.5VDC |
| | Maximum capacity | 12kW |
| | Battery breakers | 2×125A/1P |
| | Load breakers | LLVD: 1×80A/1P, 6×32A/1P BLVD: 1×80A/1P, 2×32A/1P, 1×10A/1P |
| | SPD | 10kA/20kA, 8/20μs |
| Rectifier | Model | R4850G2 |
| | Efficiency | >96% |
| | Rated power | 3000W(176~300VAC) |
| | Working temperature | -40°C~+65°C (fully output below 55°C) |
| | Dimension | 105mm(W)×281mm(D)×40.8mm(1U/H) |
| | Weight | ≤2kg |
| | Cooling mode | Forced cooling |
| Monitoring | Type | SMU06C2 |
| | Communication port | RS232,RS458 |
| Environment | Operating temperature | -40°C~+65°C |
| | Storage temperature | -40°C~+70°C |
| | Operating humidity | 5%~95%(non-condensing) |
| | Altitude | 0~4000m(If the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1°C as the altitude increases by 200m.) |

Remark: Optional rectifiers with power efficiency >92% are available for this system.

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