

Indoor Mini Power System

TP48300B-N04C1



Introduction

TP48300B-N04C1 are mini -48VDC power systems. They can be configured with 6 × 1U 50A high efficiency rectifier modules in maximum, and provide 300A rated output current. The systems are small in size, can be flexibly installed in multiple scenarios such as battery rack stacking and standard open rack, and have excellent performance including intelligent battery management, intelligent dormancy technology, remote management, etc.

Features

- High density system: only 11U in height; power density of 12kW/U
- Flexible installation: battery rack stacking, 19/21/23 inches open rack, ground, DFMU cabinet or wall-mounted optional
- System complies with CE standard; rectifier complies with UL, CE, TUV standards
- Wide range of AC input voltage: 85~300VAC
- 1U high efficiency rectifier(>96%): fully output below 55°C
- Provides comprehensive battery management
- System efficiency promotion: support intelligent dormancy technology
- Easy installation: hot-swappable system modules
- Supports NetEco network management system and in-band/ out-band networking: reduces operation expenditure



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Scenarios

- Wireless access network
- Fixed access network
- Convergence network
- Enterprise communication network

Specifications

| Product Type | | TP48300B-N04C1 |
|-----------------|-----------------------|---|
| System | Dimensions | 442mm(W)×360mm(D)×480mm(H) |
| | Weight | ≤30kg (Without rectifier modules) |
| | Cooling mode | Natural cooling |
| | Installation mode | On the battery rack, 19/21/23 inches open rack, ground, DFMU cabinet, wall-mounted |
| | Cabling mode | Top inlet and top outlet |
| | Maintenance mode | Front and top operation and maintenance |
| | Noise level | ≤55dB(At ambient temperature 25°C) |
| | Protection level | IP20 |
| AC Distribution | Input mode | 220/380VAC three-phase four-wire; 220V single-phase |
| | Input voltage | 85VAC ~ 300VAC |
| | Input frequency | 45~66Hz, rated 50Hz/60Hz |
| | Input capacity | 1×63A/3P(MCB) |
| | SPD | 20kA/40kA, 8/20μs |
| DC Distribution | Output voltage | -42~-58VDC, rated -53.5VDC |
| | Maximum capacity | 18kW(6×3000W) |
| | Battery branch(fuse) | 2×160A(NT00) |
| | LLVD branch(MCB) | 1×100A/1P, 2×80A/1P (5×63A/1P reserved) |
| | BLVD branch(MCB) | 1×63A/1P, 1×32A/1P, 2×16A/1P (2×63A/1P reserved) |
| | SPD | 10kA/20kA, 8/20μs |
| Rectifier | Rated power | 3000W(176VAC ~ 290VAC) |
| | Power efficiency | >96% |
| | Working temperature | -40°C~+75°C |
| | Dimensions | 105mm(W)×281mm(D)×40.8mm(H) |
| | Weight | <2kg |
| | Power factor | ≥0.99 |
| | THD | ≤5% |
| Controller | Signal input | 3 AI(Battery temp., ambient temp., ambient humidity) 9 DI(Water, smoke, gate, 6 common DI) |
| | Alarm output | 8 dry contacts |
| | Communication port | RS232/RS485 |
| | Storage capacity | Up to 2000 historical records |
| | Display mode | LCD |
| Environment | Operating temperature | -10°C~+50°C |
| | Storage temperature | -40°C~+70°C |
| | Operating humidity | 5%~95%(Non-condensing) |
| | Altitude | 0~4000m |

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