

# FitOn DP4890-A4 Embedded Power Supply

## Introduction

FitOn DP4890-A4 embedded power supply converts AC input into stable 48V DC output. The maximum output current of the system is 90A, and the height is 4U. The product adopts front wiring design, which is safe and reliable to operate, neat and beautiful. It can adapt to a wide range of AC input and has intelligent battery management, remote monitoring, etc.



## Application

Suitable for high-end professional networks with high power supply requirements, such as small switching equipment, transmission stations, small base stations and broadband access

## Features

### Reliable

- Superior adaptability to power grid and environment
- Module redundancy configuration, high reliability
- All-round lightning protection design of AC and DC sides to improve the lightning protection ability of the system

### Efficient

- Efficient rectifier module configuration to reduce energy consumption
- Ultra-compact design, 4U height
- Rectifier and monitoring modules support hot swap, and the maintenance is quick and convenient

### Intelligent

- Full digital control
- Perfect module intelligent sleep function to improve the efficiency of the system
- Intelligent battery fine management to prolong battery lifetime

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## Specifications

| Item                                 |   | Description   |
|--------------------------------------|---|---|
| Basic parameters                     | Max. output current   | 90A   |
|                                      | Structure   | 19 inches wide and 4U high  |
|                                      | Dimension (mm)  | 4U x 482.0 x 300 (H x W x D)  |
|                                      | Weight (kg)   | ≤15 (excluding rectifier module)  |
| Distribution parameters              | Input system  | Single phrase 220Vac  |
|                                      | Input switch  | 63A/2P×1  |
|                                      | AC SPD  | Nominal discharge current: 20kA (8/20μs)  |
|                                      | DC SPD  | Nominal discharge current: 10kA (8/20μs)  |
|                                      | Battery switch  | 125A/1P×2   |
|                                      | Power off switch  | 32A/1P×2+63A/1P×3   |
| Parameters of rectifier modules      | Secondary power off switch  | 16A/1P×2+32A/1P×4   |
|                                      | Module configuration model  | FR4830 30A  |
|                                      | Input voltage range   | 85Vac~300Vac  |
|                                      | Input frequency   | 45~66Hz   |
|                                      | Power factor  | ≥0.95@100% Load   |
|                                      | Efficiency  | ≥92%@220Vac 50~100% Load  |
|                                      | Output voltage range  | 42Vdc~58Vdc   |
|                                      | Nominal voltage   | 48Vdc   |
| Parameters of monitoring module      | Rated voltage   | 53.5Vdc   |
|                                      | Monitoring unit   | PMU, LCD display, with network port and serial port   |
|                                      | Communication interface   | RS485 interface: general electricity protocol; LAN interface: TCP/IP protocol, SNMP protocol  |
|                                      | Alarm function  | Module protection, module failure, AC power failure, lightning arrester failure, low battery voltage, etc., 1000 historical records |
|                                      | Environmental detection access  | Access control, 4-way temperature detection and water immersion detection   |
|                                      | Control function  | Module switching on/off, battery power off  |
| Battery management and energy saving | Floating charge, temperature compensation, battery protection, battery test, module automatic sleep |   |

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