

FitOn DP48300-B5 Embedded Power Supply

Introduction

FitOn DP48300-B5 embedded power supply converts AC input into stable 48V DC output. The maximum output current of the system is 300A, and the height is 5U. 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, 5U 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	300A
	Structure	19 inches wide and 5U high
	Dimension (mm)	220.4 × 482.0 × 350.6 (H × W × D)
	Weight (kg)	≤20 (excluding rectifier module)
Distribution parameters	Input system	Three phase five line 380Vac
	Input switch	63A/4P×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	16A/1P×2+63A/1P×4+125A/1P×2
Parameters of rectifier modules	Secondary power off switch	20A/1P×2+25A/1P×2
	Module configuration model	FR4850 50A
	Input voltage range	85Vac ~ 300Vac
	Input frequency	45~66Hz
	Power factor	≥0.99@20~100% Load
	Efficiency	≥96%@220Vac 50% 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
Product certification	Battery management and energy saving	Floating charge, temperature compensation, battery protection, battery test, module automatic sleep
	TLC, CE	