

# Indoor Mini Power System

TP48300B-L04C1



## Introduction

TP48300B-L04C1 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-L04C1
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	110VAC dual-live wire; 220V single-phase
	Input voltage	85VAC ~ 300VAC
	Input frequency	45~66Hz, rated 50Hz/60Hz
	Input capacity	1×125A/2P(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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