

Indoor Integrated Power System

TP48600B-N20B1



Introduction

TP48600B-N20B1 is an AC/DC indoor integrated power system with 600A rated output current. It can accommodate 12x1U 48V/50A high efficiency rectifiers and 3 groups of batteries in maximum.

Features

- 1U rectifier: high density($42.7W/inch^3$), high efficiency(>96%), excellent high temperature performance(fully output below 55°C)
- Can accommodate 3 groups of batteries, providing better use of space
- Compatible with high-temperature batteries, saving site cooling cost by increasing cooling temperature
- Intelligent battery management function helps to prolong battery lifespan
- Battery anti-reversed polarity function to avoid the danger of device caused by reversed polarity
- Realizing centralized and remote site monitoring by zero additional hardware cost through in-band transmission



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Application Scenarios

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

Specifications

Product Type		TP48600B-N20B1
System	Dimension	600mm(W)×600mm(D)×2000mm(H)
	Weight	≤130kg (without rectifier modules or batteries)
	Cooling mode	Natural cooling
	Installation mode	Ground installation (Antistatic floor or ground installation)
	Cabling mode	Top inlet and top outlet
	Maintenance mode	Front operation and maintenance; support installation against the wall (≥100mm)
	Protection level	IP20
	Battery space	24U(3 groups×150Ah)
AC Distribution	Input mode	Default: 220/380V three-phase four-wire; Can transform to 220V three-phase three-wire on site
	Input voltage	85~300VAC
	Input frequency	45~66Hz, rated value: 50Hz/60Hz
	Input capacity	MCB: 1x125A/3P
	SPD	20kA/40kA, 8/20μs
DC Distribution	Output voltage	42~58VDC, rated value: 53.5VDC
	Maximum capacity	36kW(12×3000W)
	Battery branch	Fuse: 4x250A
	LLVD branch	Fuse(NT00): 4x160A MCB: 2x63A/1P, 6x32A/1P, 2x10A/1P
	BLVD branch	MCB: 2x63A/1P, 2x32A/1P, 2x10A/1P
	SPD	10kA/20kA, 8/20μs
Rectifier	Max. output power	3000W
	Power efficiency	PSU: >96%*
	Dimensions	105mm(W)×281mm(D)×40.8mm(H)
	Weight	≤2kg
Controller	Signal input	5 AI(Battery temp., ambient temp., ambient humidity, temp1, temp2) 9 DI(Water, smoke, gate, 6 common DI)
	Alarm output	8 dry contacts
	Communication port	RS232, RS485, FE
	Storage capacity	Up to 50000 historical records and alarm
	Display mode	LCD
Environment	Operating temperature	-10°C~+45°C(including batteries)
	Storage temperature	-40°C~+70°C
	Operating humidity	5%~95%(non-condensing)
	Altitude	0~4000m

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

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HUAWEI TECHNOLOGIES CO., LTD.

Huawei Industrial Base
Bantian Longgang
Shenzhen 518129, P.R. China
Tel: +86-755-28780808
www.huawei.com