

# Embedded DC Power System

ETP48200-C5B4, ETP48200-C5B5



## Introduction

ETP48200-C5B4/C5B5 is an AC/DC embedded power system with excellent performance such as high power efficiency, intelligent battery management, remote management, wide range of AC input voltage, etc. The system can configure 4 pieces of 1U 50A high rectifier modules, and provides 200A rated current output. ETP48200-C5B4 and ETP48200-C5B5 can be embedded in 19-inch rack or cabinet.



ETP48200-C5B4

## Features

- 1U rectifier: high density( $42.7W/inch^3$ ), high efficiency(>96%), excellent high temperature performance(fully output below  $55^{\circ}C$ ), hot-swappable
- Wide operation temperature range of embedded power from  $-40^{\circ}C$  to  $65^{\circ}C$
- Hot-swappable rectifiers provide easy installation and maintenance
- Standard installation structure design, adapt to various scenarios
- Compact design(only 5U in height), saving space and installation cost
- Excellent rectifier dormancy function helps increase system efficiency
- Intelligent battery management and protection help to prolong battery lifespan
- Support environmental signal monitoring and remote management through dry contact, serial interface or Ethernet interface



ETP48200-C5B5



50A rectifier



Controller

## Application Scenarios

- Wireless base station
- Transmission network
- Communication network of enterprises

## Specifications

Type	ETP48200-C5B4	ETP48200-C5B5	
System	Dimension	482.6mm(W)×330mm(D)×5U(H)	
	Weight	≤20kg (without rectifiers)	
	Cooling mode	Natural cooling	
	Installation mode	Installed on 19-inch rack or inside the cabinet	
	Cabling mode	Top inlet and top outlet	
	Maintenance mode	Front maintenance, support module grade change	
	Protection level	IP20	
AC Distribution	Input mode	220/380VAC three-phase or 220VAC single phase	110VAC dual live or 220VAC single phase
	Input capacity	1×63A/3P	1×100A/2P
	Output capacity	1×20A/1P	1×32A/2P
	Input frequency	45~66Hz, rated value: 50Hz/60Hz	
	SPD	30kA/60kA, 8/20μs	
DC Distribution	Output voltage	-42~-58VDC, rated value: -53.5VDC	
	Maximum capacity	12kW	
	Battery breakers	2×125A/1P	
	Load breakers	LLVD: 2×80A/1P, 3×32A/1P BLVD: 1×63A/1P, 3×32A/1P, 1×16A/1P	LLVD: 2×80A/1P, 3×32A/1P BLVD: 1×63A/1P, 2×32A/1P, 1×16A/1P
	SPD	10kA/20kA, 8/20μs	
Rectifier	Input voltage	85VAC~300VAC, rated 220VAC	
	Efficiency	>96%	
	Rated power	3000W(176~300VAC)	
	Working temperature	-40℃~+75℃ (fully output below 55℃)	
	Dimension	105mm(W)×281mm(D)×40.8mm(1U/H)	
	Weight	≤2kg	
	Cooling mode	Forced cooling	
	Power factor	≥0.99	
THD	≤5%		
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 contact	
	Communication port	RS232/485, FE	
	Display mode	LCD	
Environment	Operating temperature	-40℃~+65℃	
	Storage temperature	-40℃~+70℃	
	Operating humidity	5%~95%(non-condensing)	
	Altitude	0~4000m(If the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1℃ as the altitude increases by 200m.)	

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

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