

Embedded Power System



ETP48300-C6A1

Introduction

ETP48300-C6A1 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 6 pieces of 1U 50A high rectifier modules, and provides 300A rated current output. ETP48300-C6A1 can be embedded in 19-inch rack or cabinet. 3G networking mode is supported by optional component.

Features

- 1U rectifier: high density(42.7W/inch³), high efficiency(>96%)
- Excellent high temperature performance(fully output below 55°C)
- Wide operation temperature range of – 40°C to 65°C
- Hot-swappable
- Standard structure design, adapt 19/21 inch installation
- Compact design(only 5U in height), saving user space
- Excellent rectifier dormancy function increases 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

Scenarios

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



ETP48300-C6A1



50A rectifier



Controller

Specifications

Product Type		ETP48300-C6A1
System	Dimension (W × D × H)	482.6 mm × 330 mm × 266.7 mm (6U)
	Weight	≤ 20 kg (without rectifier modules)
	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	220/380 Vac three-phase or 220 Vac single phase
	Input Capacity	-
	Output Capacity	-
	Input Frequency	45–66 Hz, rated value: 50/60 Hz
	SPD	-
DC Distribution	Output Voltage	42–58 Vdc, rated value: 53.5 Vdc
	System Capacity	18 kW
	Battery Branch	4 × 125 A/1P
	LLVD Branch	2 × 80 A/1P, 9 × 32 A/1P
	BLVD Branch	1 × 63 A/1P, 3 × 32 A/1P, 1 × 16 A/1P
	SPD	10/20 kA, 8/20 μs
Rectifier	Mode	R4850G2
	Rated Power	3000 W (175–300 Vac)
	Dimension (W × D × H)	105 mm × 281 mm × 40.8 mm
	Power Efficiency	> 96%
Controller	Mode	SMU02B
	Communication Port	RS232, RS485, FE
Environment	Operating Temperature	–40°C to +65°C
	Storage Temperature	–40°C to +70°C
	Operating Humidity	5% – 95% (non-condensing)
	Altitude	0 – 4000 m (If the altitude is within the range of 3000 m to 4000 m, the maximum operating temperature decreases by 1°C as the altitude increases by 200 m)

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