

Embedded Power System



ETP48200-C5B4

Introduction

ETP48200-C5B4 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 can be embedded in 19-inch rack or cabinet.



ETP48200-C5B4

Features

- 1U rectifier: high density, high efficiency (> 96%), excellent high temperature performance (fully output below 55°C)
- Wide operation temperature range of embedded power from – 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



50A rectifier



Controller

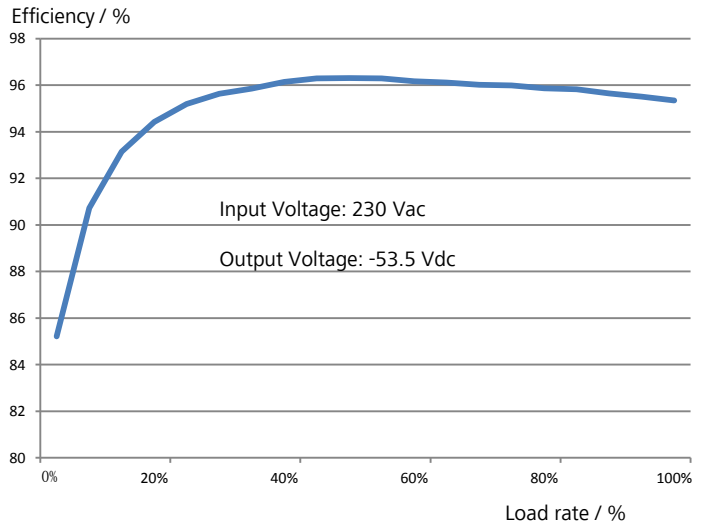
Scenarios

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

Efficiency Curve



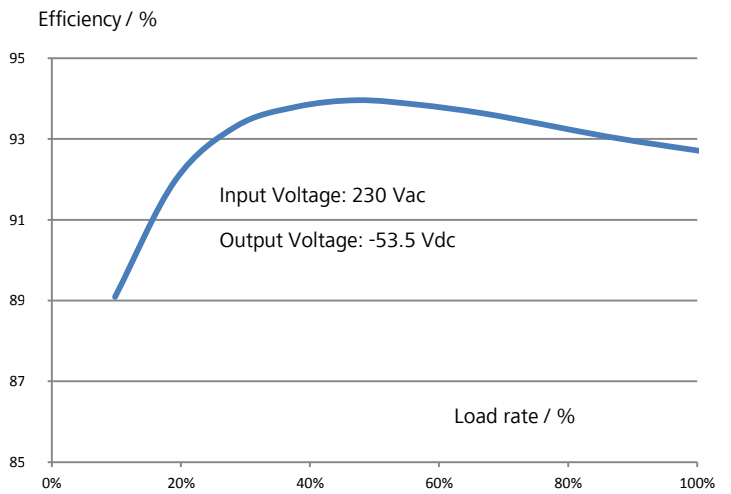
**Rectifier -3000 W-96%
(R4850G2)**



Energy Efficiency Curve

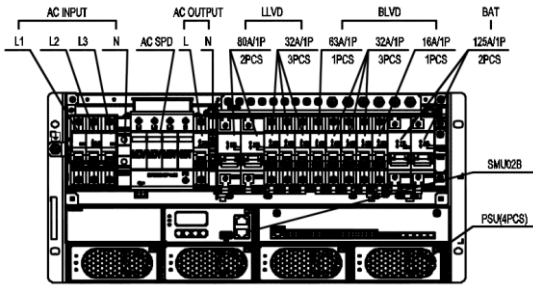


**Rectifier -3000 W-94%
(R4850N6)**

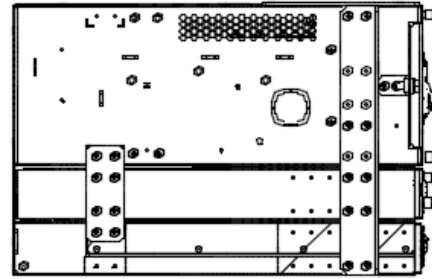


Energy Efficiency Curve

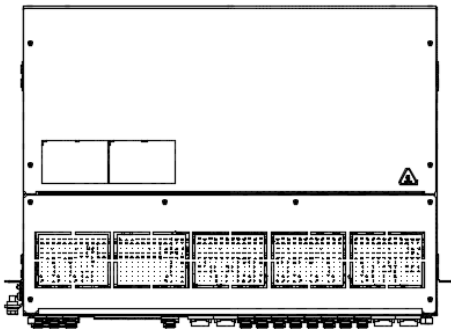
Dimension Drawings



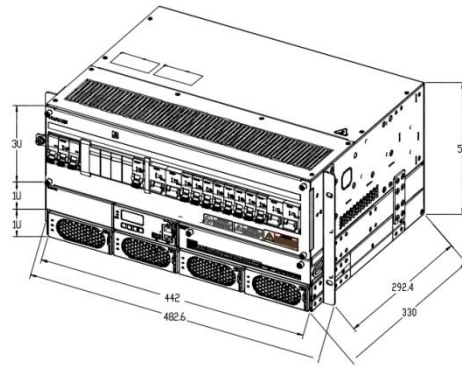
Front View of ETP48200-C5B4



Side View of ETP48200-C5B4

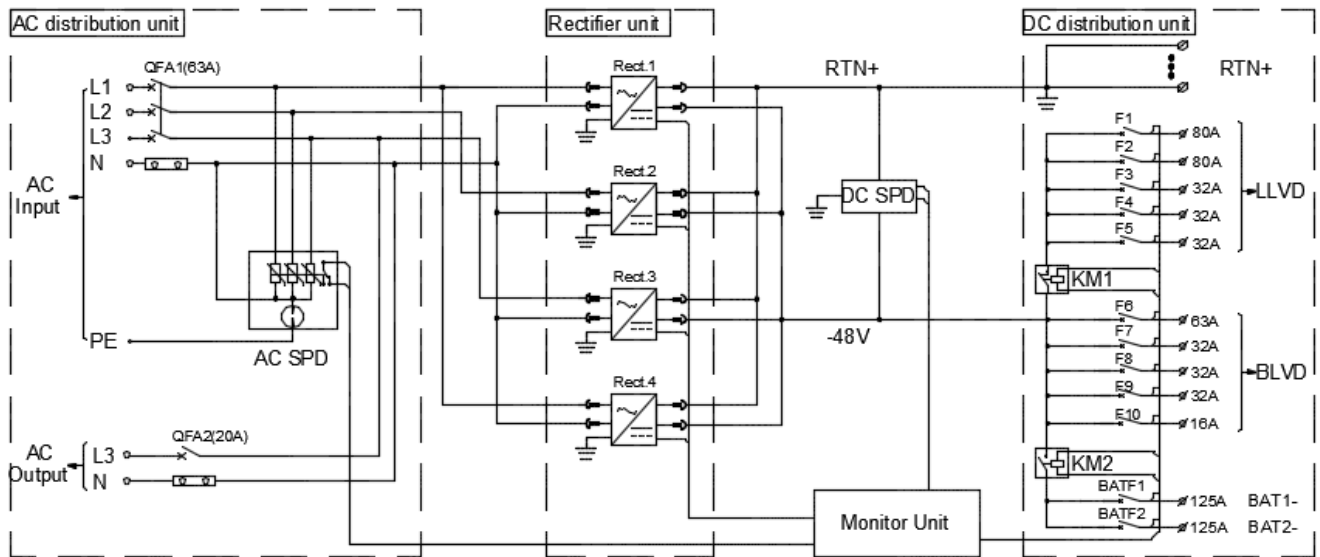


Top View of ETP48200-C5B4



Overview of ETP48200-C5B4

Schematic Diagram



ETP48200-C5B4

Specifications

Product Type		ETP48200-C5B4
System	Dimension	482.6 mm (W) × 330 mm (D) × 219.5 mm (5U,H)
	Weight	≤ 20 kg (without rectifiers)
	Cooling Mode	Natural cooling
	Installation Mode	Installed on 19-inch rack or cabinet
	Cabling Mode	Top inlet and top outlet
	Maintenance Mode	Front
	Protection Level	IP20
Input	AC Input Voltage	85–300 Vac, rated value: 220 Vac, 220/380 Vac three-phase or 220 Vac single phase
	Input Frequency	45–66 Hz, rated value: 50/60 Hz
	Input Capacity	1 × 63 A/3P
Output	AC Output	1 × 20 A/1P
	Output Voltage	42–58 Vdc, rated value: 53.5 Vdc
	Maximum Capacity	12 kW
	Battery Breakers	2 × 125 A/1P
	LLVD Breakers	2 × 80 A/1P, 3 × 32 A/1P
	BLVD Breakers	1 × 63 A/1P, 3 × 32 A/1P, 1 × 16 A/1P
	SPD	30/60 kA, 8/20 μs (AC) , 10/20 kA, 8/20 μs (DC)
EMC & Safety	EMC	EN 55022, IEC 61000-3-3, IEC 61000-3-12, IEC 61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC 61000-4-11
	Safety	IEC/EN60950-1 and GB4943
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 (When the altitude ranges from 3000 m to 4000 m, the operating temperature decreases by 1°C for each additional 200 m)

Product Type		R4850G2	R4850N6
Rectifier	Efficiency	> 95% (30% to 100% load) > 96% Max	> 92% (30% to 100% load) Near to 94% Max
	Maximum Power	3000W (176 to 300 Vac)	
	Input Voltage	85 to 300 Vac	
	Working Temperature	–40 °C to +75 °C (non-derating below 55 °C), ETS EN 300-019	–40 °C to +75 °C (non-derating below 40 °C), ETS EN 300-019
	Dimension	105 mm(W) × 281 mm(D) × 40.8 mm(H)	
	Weight	≤ 2.0 kg	
	Cooling Mode	Forced Air cooling (Built-in fan)	
	Power Factor	≥ 0.99 (> 50% load at 230 Vac)	
THD	≤ 5% (> 50% load at 230 Vac)		

Product Type		SMU02B
Controller	Signal Input	6 digital inputs (need interface Unit UIM02C), 7 analog inputs (need interface Unit UIM02C)
	Alarm Output	8 dry contacts (need interface Unit UIM02C)
	Communication Port	RS232, RS485, FE
	Display Mode	LCD

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