



Huawei Energy Powering the Future

Huawei Site Power Solutions

HUAWEI TECHNOLOGIES CO., LTD.



Outdoor Telecom Power System

TP48200A

Introduction

TP48200A is an outdoor telecom power system which configures 48V/50A rectifier modules to supply rated 200A output current. TP48200A has different cooling modes to meet various scenarios, such as heat exchange, direct ventilation, TEC, providing stable and reliable integrated or distributed power supply solution for various outdoor communication devices. The system has excellent performances such as wide range of AC input voltage, high power efficiency, surge protection, temperature control, intelligent battery management, and remote monitoring.

Features

- The power system complies with the CE standard, the power distribution components comply with the CE standard, and the rectifier complies with the UL, CE, and TUV standards.
- Super temperature performance for rectifiers with the range from -40°C to $+75^{\circ}\text{C}$
- High power efficiency of rectifier: up to 97%, non-derating before 55°C
- High protection level: IP55
- Intelligent temperature control, making sure the system work stably
- Adaptive installation for various scenarios
- Intelligent battery management, prolonging battery lifespan
- Easy to install, modules are hot-swappable
- Remote monitoring, reducing operation expenditure

Application scenarios

TP48200A applies to outdoor Macro BTS and outdoor distributed BTS.



Integrated Power Cabinet



Split Type Equipment Cabinet



Split Type Battery Cabinet



Integrated Power Cabinet Specifications

	Type	TP48200A-H15A3	TP48200A-H15A5	TP48200A-D15A1
System specification	Dimension	1500mm(H, excluding base)×650mm(W)×650mm(D)		
	Weight	<120Kg (excluding rectifier and battery)		
	Rated capacity	200A		
	Cooling mode	Heat exchanger for equipment cabin, direct ventilation for battery cabin		Direct ventilation
	Maintenance	In front, supporting modular replacement		
	Cabling mode	Cable outlet from the bottom of the cabinet		
	Installation mode	At the bottom, inlet/outlet downwards		
Environment specification	Protection level	Equipment cabin: IP55, Battery cabin: IP45		IP55
	Operating temperature	-10~+45°C	-40~+45°C	-10~+45°C
	Operating humidity	5%~95%(non-condensing)		
AC distribution	Altitude	0~4000m (at the altitude from 2000m to 4000m, the temperature declines by 1°C for each increase of 200m in altitude)		
	Input mode	Single phase/ Three phase		
	Input voltage	85~300VAC, rated: 220VAC		
	Input frequency	45~65Hz, rated: 50Hz/60Hz		
	Input distribution	1×63A/3P MCB		
	Output distribution	2 ×16A MCB		
DC distribution	SPD for AC input	Standard surge discharge current: 20kA, 8/20μs Maximum surge discharge current: 40kA, 8/20μs		
	Output voltage	42~58VDC, default value: 53.5VDC		
	SPD for DC output	Differential mode: 10kA, 8/20μs; Common mode: 20kA, 8/20μs		
	Maximum output power	12000W		
	Battery branch	2×125A MCB		
	BLVD	2×16A MCB		
Rectifier module	LLVD	2×63A, 2×32A MCB		
	Efficiency	Up to 97%		
Monitoring unit	Input voltage	85~300VAC, rated: 220VAC		
	Communication	RS485/232,FE		
	Sensor	battery temperature, door, environment temperature, environment humidity , smoke, water sensor, 6 battery voltage check points		
	Dry contact	Eight maximum, alarm signal information can be defined		
	Digital signal detection	Eight, one for AC SPD monitor, one for DC SPD monitor, six spared		

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