

# Large Capacity Power System

TP482000B-N20C5



## Introduction

Huawei TP482000B-N20C5 is the first all-digital large capacity telecom power system in industry. AC distribution, rectifier, monitoring unit and DC distribution are integrated in single cabinet. The system consists of 1U high 100A rectifiers. The output of single cabinet can reach 2000A, and can be expanded to 10,000A by cabinets parallel combination. The system has tremendous features such as high reliability, high efficiency, high power density, high capacity, low noise and easy maintenance.

## Features

- System MTBF is over 500,000 hours
- The system complies with the CE standards. The rectifier module complies with the UL, CE and TUV standards
- High efficiency of rectifier is over 96%, saving huge energy
- High power density, maximum 2000A in one cabinet system, saving footprint
- High output capacity, expandable to 100,000A
- Flexible configuration, supporting parallel combination with DC distribution cabinet
- Wide range of AC input, 260VAC~530VAC
- All-CAN communication, improve system response rate obviously
- Support Huawei NetEco and the third network management system, saving OPEX
- Support in-band/out-band/IP monitoring, matching customer's future evolution strategy mode

## Application Scenarios

- Wireless network central office
- Fixed network central office
- Large capacity convergence site
- Enterprise network central office
- Data center



TP482000B-N20C5

## Specifications

Product type		TP482000B-N20C5
System Specification	Dimensions	600mm(W)×600mm(D)×2000mm(H)
	Weight	≤150kg(without rectifier modules)
	Cooling mode	Natural cooling
	Installation mode	Floor installation(antistatic floor or ground installation)
	Cabling mode	Top inlet and top outlet
	Maintenance mode	Front access, front and rear maintain
	Noise	≤60dB(at ambient temperature 25℃)
	Protection level	IP20
AC Distribution	Input mode	Three phase four/five line mode, support TN, TT, IT
	Input voltage	260VAC ~ 530VAC, rated 380VAC
	Input frequency	45~66Hz, rated 50Hz/60Hz
	Input capacity	2 × 160A/3P(terminal)
	SPD	20kA/40kA, 8/20μs
DC Distribution	Output voltage	42~58VDC, rated 53.5VDC
	Maximum capacity	120kW(20 × 100A rectifier)
	Battery branch	2x(2x1000A)(NT4)
	Load branch	6x500A(NT3), 6x160A(NT00), 6x100A(NT00)
	SPD	10kA/20kA, 8/20μs
Rectifier	Input	3-phase, 260VAC ~ 530VAC, rated 380VAC
	Output voltage	42~58VDC, default 53.5VDC
	Output power	6000W(304VAC ~ 530VAC)
	Operating temperature	-40℃ ~ +75℃(derated output above 45℃)
	Efficiency	> 96%
	Dimension	238mm(W)×378mm(D)×43mm(H)
	Weight	<6kg
	Power factor	≥0.99
Controller	THD	≤5%
	Signal input	4 DI
	Signal output	8 DO
	Sensor port	1 temperature sensor ports
	Communication port	FE, RS485/232
	Storage capacity	Up to 10000 historical records and alarms
	Display mode	LCD(dimensions: 73.2mm×54.8mm)
Environment	Operating temperature	-10℃ ~ +45℃
	Storage temperature	-40℃ ~ +70℃
	Operating humidity	5%~95%(non-condensing)
	Altitude	0~4000m

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