

Standalone Central Office Power System

TP481200B-N20D1



Introduction

TP481200B-N20D1 is a new type of large-capacity DC power system with AC input, rectifier unit and DC output in a single cabinet. Configured with 1U super efficiency rectifiers, the system can reach max.1200A output. It has tremendous features such as high reliability, huge energy saving, high power density and precise management, etc.

Features

- System complies with CE standards. Rectifiers comply with UL, CE and TUV standards
- All-in-one design of AC, rectifier and DC unit, expandable to 6000A by parallel connection
- Flexible networking through IP, RS485/232, CAN ports
- Leading rectifier efficiency: Max. 97%, saving huge energy
- Support -57VDC constant output to save cable investment and reduce cable loss
- Local graphics and visualization of power running status
- Intelligent management: online remote maintenance reduces site visits and maintenance costs
- Mobile APP for HUAWEI energy management system NetEco, capturing timely status of central office anywhere



TP481200B-N20D1

Scenarios

- Central office
- Aggregation office
- Data center
- Enterprise communication network

Specifications

Product type		TP481200B-N20D1
System Specification	Dimensions (W × D × H)	600mm × 600mm × 2000mm
	Cooling mode	Natural cooling
	Installation mode	Floor installation(antistatic floor or ground installation)
	Cabling mode	Top inlet and top outlet
	Maintenance mode	Front operation and maintenance; support installation against the wall (≥100mm)
	Protection level	IP20
AC Distribution	Input mode	Three-phase four-wire or three-phase five-wire
	Input voltage	85VAC - 300VAC (L-N), rated: 220VAC
	Input frequency	45 - 66Hz, rated: 50Hz/60Hz
	Input capacity	1 × 200A/3P (MCCB)
	SPD	20/40kA (8/20μs)
DC Distribution	Output voltage	Normal mode: 42VDC - 58VDC, rated 53.5VDC 5G mode: 57VDC constant (must match with BoostLi)
	Maximum capacity	72kW (18 × 4kW)
	Battery branch	2 × 1000A (NT4)
	Load branch	4 × 500A (NT3), 2 × 400A (NT2), 6 × 160A (NT00), 6 × 100A (NT00)
	SPD	10/20kA (8/20μs)
Rectifier	Efficiency	97% max
	Maximum capacity	4000W (176VAC - 300VAC)
	Operating temperature	-40 to +75°C
	Dimension (W × D × H)	105mm × 281mm × 40.8mm
	Weight	<2.2kg
	Power factor	≥0.99
	THD	≤5%
Controller	Model	SMU02C
	Signal input	8 DI
	Alarm output	8 DO
	Communication port	RS485/232, SNMP, CAN
	Storage capacity	50,000 historical records
	Display mode	Color LCD, dimension (W × D × H): 175mm × 264mm × 40mm
Environment	Operating temperature	-10°C to +45°C
	Storage temperature	-40°C to +70°C
	Operating humidity	5% - 95% (non-condensing)
	Altitude	0 - 4000m

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