

5G Power

DC Distribution Expansion Unit DCDB48-200



Introduction

DCDB48-200 is a new type of DC distribution expansion unit developed by Huawei. With the height of 1U and the maximum capacity of 200A, it can be installed in a 19-inch rack. It is suitable for scenarios of site power DC distribution expansion.



DCDB48-200

Features

- Easy installation and maintenance, 19-inch rack mounting, front maintenance
- Small size, only 1U in height, high power density
- Support detection of total input current
- Support first-level power-off management of total load

Specifications

System	Dimension (W × D × H)	482.6mm × 255mm × 43.6mm
	Weight	≤10kg
	Cooling mode	Natural heat dissipation
	Installation mode	19-inch rack mounting
	Maintenance mode	Front O&M
	Cable routing	Front-in, front-out
Electrical Performance	Input voltage	40VDC to 60VDC
	Maximum capacity	200A
	DC distribution	Secondary load: 6 × 63A, 4 × 32A Important load: 2 × 32A, 2 × 20A, 2 × 16A
	DC SPD	10/20kA (8/20μs)
	Energy consumption detection	Support detection of total input current
	Power-off management	Support first-level power-off management of total load
Monitoring	Networking mode	RS485, support Modbus protocol
Environment	Operating temperature	-40°C to +65°C
	Storage temperature	-40°C to +70°C
	Operating humidity	5% - 95% (non-condensing)
	Altitude	(from 3000 to 4000m, the maximum working temperature will decrease 1°C for every 200m increasing of altitude)

Copyright © Huawei Technologies Co., Ltd. 2019. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

General Disclaimer

The information in this document may contain predictive statements including, without limitation, statements regarding the future financial and operating results, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance.

Huawei may change the information at any time without notice.

HUAWEI TECHNOLOGIES CO., LTD.

Huawei Industrial Base
Bantian Longgang
Shenzhen 518129, P.R. China
Tel: +86-755-28780808

5G High Density Embedded Power



ETP48400-C3B1

Introduction

ETP48400-C3B1 is a new type of embedded power designed by Huawei. By adopting new architectural design, it is small in size and high in power density (maximum capacity up to 24kW, 3U height), and the DC distribution can be modularly expanded. With the features of supporting multi-level power-off, easy installation and maintenance, full digitalization and intelligentization, it is suitable for scenarios such as expansion on existing wireless sites, 3/4G wireless sites new-built and 5G wireless sites new-built.



ETP48400-C3B1

Features

- Small size, 3U height, high power density
- Innovative architecture design, support smooth expansion of power distribution systems
- Wide AC voltage input range: 85VAC - 300VAC
- Multi-level power-off, matching 5G service network diversification
- Support fast 5G expansion: -57VDC constant voltage output solves the problem of 5G high power consumption in AAU remote power supply
- Intelligent peak shaving enables grid free from modernization
- Intelligent staggering power unleash the potential of sites: grid adaptive adjustment, make full use of difference between peak and valley power price, reduce electric cost
- Intelligent management: online remote maintenance reduces site visits and maintenance costs

Scenarios

- 5G expansion on existing wireless site
- 3/4G wireless sites new-built
- New-built 5G wireless site

Specifications

Product Type		ETP48400-C3B1	
System	Dimension (W × D × H)	442mm × 330mm × 130mm	
	Weight	< 20kg (without rectifiers)	
	Installation mode	19 inch rack	
	Cabling mode	Front inlet, front outlet	
	Maintenance mode	In front	
	Noise level	Meet ETSI300753 standard Class 3.1 requirements	
AC Distribution	Input mode	220/380VAC three-phase four-wire, compatible with single phase	
	Input voltage	Three phase: 147VAC - 519VAC; single phase: 85VAC - 300VAC	
	Input frequency	45Hz - 65Hz, rated value: 50Hz/60Hz	
	Input capacity	1 × 63A/3P MCB	
	SPD	20kA/40kA (8/20μs)	
DC Distribution	Output voltage	Normal mode : 42VDC - 58VDC, rated value: 53.5VDC 5G mode : 57VDC constant (must be used together with BoostLi lithium battery)	
	Maximum capacity	24kW (6 × 4kW)	
	Battery branch	Dual OT terminal, 2 × 200A	
	LLVD branch	2 × 125A MCB, 3 × 63A MCB	
	BLVD branch	2 × 63A MCB, 2 × 32A MCB, 2 × 16A MCB	
	SPD	10kA/20kA (8/20μs)	
Rectifier	Type	R4875G5	R4850G5
	Input voltage	85VAC - 300VAC, rated 220VAC	
	Rated power	4000W (176VAC - 300VAC) 4000W - 1600W (175VAC - 85VAC Linear derating)	3000W (176VAC - 300VAC) 3000W - 1250W (175VAC - 85VAC Linear derating)
	Maximum Efficiency	97%	96%
	Working temperature	-40°C to +75°C	
	Dimension (W × D × H)	105mm × 281mm × 40.8mm	
	Weight	≤ 2.2kg	≤2.0kg
	Power factor	≥ 0.99	
Controller	THD	≤ 5%	
	Signal input	2 AI (battery temp., ambient temp.) 4 DI (gate, smoke, water, 1 reserved)	
	Alarm output	8 DO	
	Communication port	RS232, RS485, CAN, FE	
	Storage capacity	Up to 1000 historical records	
	Display mode	LCD, support optional mobile APP	
Environment	Networking mode	IP, GPRS, In-band	
	Operating temperature	-40°C to +65°C	
	Storage temperature	-40°C to +70°C	
	Operating humidity	5% - 95% (non-condensing)	
DC Distribution Expansion Box (Optional)	Altitude	0 - 4000m (High temperature derating in the environment of 2000m - 4000m, the operating temperature is reduced by 1°C for every 200m increase)	
	Dimension (W × D × H)	482.6mm × 255mm × 43.6mm	
	Load branch	Secondary load: 6 × 63A, 4 × 32A Important load: 2 × 32A, 2 × 20A, 2 × 16A	

Lead-acid Battery Connection Unit (Optional)	Dimension (W × D × H)	482.6mm × 180mm × 43.6mm
	Load branch	Default: 4×125A/1P (can be expanded to 6×125A/1P)
Intelligent Features	Intelligent boosting	Support -57VDC constant voltage output by software configuration, suitable for high power load and long distance power supply
	Intelligent peak shaving	When the peak load exceeds commercial power supply, the power system can control the battery to discharge and share the burden, reducing the peak load of grid power
	Intelligent staggering power	Grid adaptive adjustment, make full use of the difference between peak and valley power price, reduce electric cost
	Intelligent management	Support NetEco, can perform statistical analysis on energy efficiency of single station and the whole network, can carry out targeted upgrades and improve the operation efficiency, reduce maintenance cost
	Note: must be used together with BoostLi lithium battery	

Copyright © Huawei Technologies Co., Ltd. 2019. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

General Disclaimer

The information in this document may contain predictive statements including, without limitation, statements regarding the future financial and operating results, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance. Huawei may change the information at any time without notice.

HUAWEI TECHNOLOGIES CO., LTD.

Huawei Industrial Base

Bantian Longgang

Shenzhen 518129, P.R. China

Tel: +86-755-28780808

www.huawei.com