

Embedded DC Power System

ETP48150-A3



Introduction

ETP48150-A3 embedded DC power system can convert AC input to stabilized -48V DC output. It can be compatible with 15A and 30A rectifiers. ETP48150 can be embedded in 19-inch rack or cabinet or other scenarios. The system can adapt wide range of AC input voltage and provide excellent performance such as intelligent battery management, remote management, etc.

Features

- Wide range of AC input voltage from 85V to 300V
- Wide operation temperature range of rectifier from -40°C to 75°C
- Online-swappable rectifier provides easy installation and maintenance
- Standard installation structure design, adapting to various scenarios
- Compact design, saving space and installation cost
- High rectifier efficiency over 96% helps to save energy
- Excellent rectifier dormancy function helps to increase system efficiency
- Intelligent battery management and protection helps to prolong battery lifespan
- Support site environment monitoring and remote management through dry contact, serial interface or Ethernet interface



ETP48150-A3



15A rectifier



30A rectifier



Monitoring unit
SMU01A



Monitoring unit
SMU01B



Monitoring unit
SMU01C

Application Scenarios

- Access network
- Transmission network
- Communication network of enterprise

Specifications

System	Dimension	442mm(W)×255mm(D)×130.5mm (3U,H)
	Weight	≤20kg (fully loaded)
	Cooling mode	Natural cooling
	Installation mode	Installed on 19-inch rack or cabinet
	Cabling mode	Front inlet and front outlet
	Maintenance mode	Front access, support module grade alteration
	Protection level	IP20
AC Distribution	Input mode	220/380VAC 3-phase or 220VAC single phase or 110V dual-live wire
	Input frequency	45~66Hz, rated value: 50Hz/60Hz
DC Distribution	Output voltage	42~58VDC, rated value: 53.5VDC
	Maximum capacity	8kW
	Battery breakers	1x100A(HCB*)
	Load breakers	2x12A(HCB), 2x20A(HCB), 4x40A(HCB)
Environment	Operating temperature	-40℃~+70℃
	Storage temperature	-40℃~+70℃
	Operating humidity	5%~95%(non-condensing)
	Altitude	0~4000m(If the altitude is within the range of 2000m to 4000m, the maximum operating temperature decreases by 1℃ as the altitude increases by 200m.)

Rectifier	Rated power	870W (176~300VAC)	1000W (176~300VAC)	1600W (176~300VAC)
	Input voltage	85VAC~300 VAC, rated 220VAC		
	Working temperature	-40℃~+75℃ (derated output above 65℃)	-40℃~+75℃ (derated output above 55℃)	-40℃~+75℃ (derated output above 55℃)
	Dimension	95.5mm(W)×208mm(D)×40.8mm(H)		
	Weight	≤1.5kg	≤1.1kg	<1.6kg
	Cooling mode	Forced cooling		
	Power factor	≥0.99		
	THD	≤5%		

Controller	Type	SMU01A	SMU01B	SMU01C
	Signal input	7 digital input, 2 analog input		2 digital input
	Alarm output	8 dry contact output		4 dry contact output
	Communication port	RS232/485, FE	RS232/485	
	Display mode	LCD		

Remark: * HCB is short for hydraulic circuit breaker.
Optional rectifiers with power efficiency >92% are available for this system.

Copyright © Huawei Technologies Co., Ltd. 2014. 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