

Embedded Power System

ETP4860-B1A2



Introduction

ETP4860-B1A2 is an AC/DC embedded power system with excellent performance such as high power efficiency, intelligent battery management, remote management, wide range of AC/DC input voltage, etc. The system can configure 1U 30A high rectifier module, and provides 4kW output. ETP4860-B1A2 can be embedded in 19-inch rack or cabinet.



ETP4860-B1A2

Features

- Wide range of AC input voltage from 85 V AC to 300 V AC
- Support high-voltage DC input (100 to 420V DC)
- Hot-swappable rectifier and DC distribution unit
- Standard structure design, adapt 19/21 inch installation
- Compact design(only 1U in height), saving user space
- High rectifier efficiency over 96% helps to save energy
- Excellent rectifier dormancy function increases system efficiency
- Intelligent battery management and protection help to prolong battery lifespan
- Support environmental signal monitoring and remote management through dry contact, serial interface or Ethernet interface



15A rectifier



30A rectifier



Monitoring unit
SMU11C



Monitoring unit
SMU11B

Scenarios

- Access network
- Transmission network
- Communication network of enterprises

Specifications

Product Type		ETP4860-B1A2	
System	Dimension	442 mm (W) × 255 mm (D) × 43.6 mm (1U,H)	
	Weight	≤ 4 kg (without rectifiers)	
	Cooling Mode	Natural cooling	
	Installation Mode	Installed on 19-inch rack or cabinet	
	Cabling Mode	Front inlet and front outlet	
	Maintenance Mode	Front	
	Protection Level	IP20	
Input	Input Mode	220 V AC single phase or 110 V AC dual-live wire	HVDC (High-voltage DC remote power supply)
	Input Voltage	85–300 V AC, rated value: 220 V AC	100–420V DC rated value: 200–380V DC
	Input Frequency	45–66 Hz, rated value: 50/60 Hz	/
	Input Capacity	-	
Output	AC Output	-	
	Output Voltage	42–58 V DC, rated value: 53.5 V DC	
	Maximum Capacity	4 kW	
	Battery Breakers	1 × 50 A/1P	
	LLVD Breakers	-	
	BLVD Breakers	4 × 32 A/1P, 1 × 16 A/1P	
	SPD	-	
Environment	Operating Temperature	-40°C to +65°C	
	Storage Temperature	-40°C to +70°C	
	Operating Humidity	5% – 95% (non-condensing)	
	Altitude	0 – 4000 m (When the altitude ranges from 2000 m to 4000 m, the operating temperature should be 40°C for each additional 200 m)	
Product Type		R4815G1	R4830G1
Rectifier	Efficiency	> 95% (60% to 100% load) > 96% Max	> 95% (30% to 90% load) > 96% Max
	Maximum Power	1000W (176 to 300 V AC)	2000W (176 to 300 V AC)
	Input Voltage	85 to 300 V AC	85 to 300 V AC / 85 to 400 V DC
	Working Temperature	-40 °C to +75 °C (full output below 65°C), ETS EN 300-019	-40 °C to +75 °C (full output below 55°C), ETS EN 300-019
	Dimension	95.5 mm(W) × 208 mm(D) × 40.8 mm(H)	95.5 mm(W) × 208 mm(D) × 40.8 mm(H)
	Weight	≤1.2 kg	≤1.2 kg
	Cooling Mode	Forced Air cooling (Built-in fan)	Forced Air cooling (Built-in fan)
	Power Factor	≥ 0.98 (> 50% load at 230 V AC)	≥ 0.99 (> 50% load at 230 V AC)
THD	≤ 5% (> 65% load at 230 V AC)	≤ 5% (> 50% load at 230 V AC)	
Product Type		SMU11C	SMU11B
Controller	Signal Input	5 DI, 1 gate, 1 Btemp, 1 Etemp, 2 battery mid-point voltage detection	
	Alarm Output	2 DO (compatible with DI)	
	Communication Port	CAN, RS485(northbound), RS485(southbound)	CAN, FE(northbound), RS485(southbound)
	Display Mode	No LCD, support mobile APP	

Copyright © Huawei Technologies Co., Ltd. 2020. 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