

# Embedded Power System

ETP4850-D1A1



## Introduction

ETP4850-D1A1 is an AC/DC embedded power system with excellent performance such as high power efficiency, high power density, intelligent battery management, remote management, wide range of AC or DC input voltage, etc.

The system can configure 3 pieces of 1U high rectifier modules, and provides max. 50A current output.

ETP4850-D1A1 can be embedded in 19/21 inch rack or cabinet.



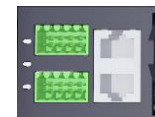
ETP4850-D1A1

## Features

- Wide range of AC input voltage from 85 Vac to 300 Vac, DC input voltage from 85 Vdc to 420 Vdc
- Wide operation temperature range of rectifier from – 25°C to +75°C
- Hot-swappable
- 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



Rectifier



Monitoring unit

## Scenarios

- Access network
- Transmission network
- Communication network of enterprises

# Specifications

Product Type		ETP4850-D1A1	
System	Dimension	442 mm (W) × 255 mm (D) × 43.6 mm (1U,H)	
	Weight	≤ 8 kg (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	
	Protection Level	IP20	
Input	Input Mode	AC	HVDC
	Input Voltage	85–300 Vac, rated value: 200V AC ~ 240V AC, 220 Vac single-phase or 110 Vac dual-live wire	85–420 Vdc, rated value: 200V DC ~ 380V DC
	Input Frequency	45–65 Hz, rated value: 50/60 Hz	-
	Input Capacity	-	-
Output	Output Voltage	42–58 Vdc, rated value: 53.5 Vdc	
	Maximum Capacity	3 kW	
	Battery Breakers	1 × 50 A MCB	
	LLVD Breakers	1 × 10 A MCB, 4 × 30 A MCB	
	SPD	-	
EMC & Safety	EMC	CISPR 22/EN 55022, IEC 61000-3-2/12, IEC 61000-3-3/11, IEC 61000-4-11	
	Safety	IEC60950-1	
Environment	Operating Temperature	-40°C to +65°C	
	Storage Temperature	-40°C to +70°C	
	Operating Humidity	5% – 95% (non-condensing)	
	Altitude	0 – 5000 m (When the altitude ranges from 2000 m to 5000m, the operating temperature decreases by 1°C for each additional 200 m)	

Product Type		R4815G2	
Rectifier	Efficiency	> 95% (25% to 100% load) 96% Max	
	Maximum Power	1000 W (200V AC ~ 240V AC / 200V DC ~ 420V DC) 450W (100V AC~120V AC / 100V DC~200V DC)	
	Input Voltage	85 to 290 Vac / 85 to 420 Vdc	
	Working Temperature	-25 °C to +75 °C (full output below 55°C), ETS EN 300-019	
	Dimension	51.5 mm(W) × 208 mm(D) × 40.6 mm(H)	
	Weight	≤1.5 kg	
	Cooling Mode	Forced Air cooling (Built-in fan)	
	Power Factor	≥ 0.99 ( 100% load)	
THD	≤ 5% (> 50% load)		

Product Type		SMU11C	
Controller	Signal Input	5 DI, 1 gate, 1 Btemp, 1 Etemp, 2 battery mid-point voltage detection	
	Alarm Output	4 DO (compatible with DI)	
	Communication Port	CAN, RS485(northbound), RS485(southbound)	
	Display Mode	No LCD, support mobile APP	

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