

Embedded DC Power System

ETP4830-A1



Introduction

ETP4830-A1 can convert from 220V or dual-wire of 110V input to stabilized -48V DC output. It can also be configured with 48V/15A rectifiers and provide 30A output. All the function units have standard sized design with 1U. ETP4830-A1 can be embedded in 19-inch rack or cabinet or other scenarios. The system can provide excellent performance such as intelligent battery management, remote monitoring, etc.



ETP4830-A1

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 environment monitoring and remote management through dry contact, serial interface or Ethernet interface



15A rectifier



Monitor unit
SMU01A



Monitor unit
SMU01B



Monitor unit
SMU01C

Application Scenarios

- Access network
- Transmission network
- Communication network of enterprise

Specifications

System	Dimension	442mm(W)×255mm(D)×43.6mm(1U,H)		
	Weight	≤8kg(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 change		
	Protection level	IP20		
AC Distribution	Input mode	220VAC single phase or 110VAC dual-live wire		
	Input frequency	45~66Hz, rated value: 50Hz/60Hz		
	SPD	5kA/10kA, 8/20μs		
DC Distribution	Output voltage	42~58VDC, rated value: 53.5VDC		
	Maximum capacity	2kW		
	Battery breakers	1×20A(fuse)		
	Load breakers	2×20A(fuse)		
Environment	Operating temperature	-40℃~+65℃		
	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)	
	Input voltage	85VAC~300 VAC, rated 220VAC		
	Working temperature	-40℃~+75℃ (derated output above 65℃)	-40℃~+75℃ (derated output above 55℃)	
	Dimension	95.5mm(W)×208mm(D)×40.8mm(1U, H)		
	Weight	≤1.5kg	≤1.1kg	
	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
	Communication port	FE, RS232/485	RS232/485	
	Display mode	LCD		

Remark: Optional rectifiers with power efficiency >92% are available for this system.

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