

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 embedded in cabinet			
	Cabling mode	Front inlet and front outlet			
	Maintenance mode	Front access, support module grade alteration			
	Protection level	IP20			
AC Distribution	Input mode	Single phase/ dual-live wire			
	Input voltage	220VAC/110VAC			
	Input frequency	45~66Hz, rated value: 50Hz/60Hz			
	SPD	5kA/10kA, 8/20us			
DC Distribution	Output voltage	42~58VDC, rated value: 53.5VDC			
	Maximum capacity	2kW(2×1000W)			
	Battery branch	1×20A(fuse)			
	Load branch	2×20A(fuse)			
Environment	Operating temperature	-40°C~+70°C			
	Storage temperature	-40°C~+70°C			
	Operating humidity	5%~95%(non-condensing)			
	Altitude	0~4000m			
Rectifier	Type	R4815N1	R4815G1		
	Input voltage	85VAC~300 VAC, rated 220VAC			
	Rated power	1000W(176~300VAC)	870W(176~300VAC)		
	Working temperature	-40°C~+75°C (derated output above 55°C)	-40°C~+75°C (derated output above 65°C)		
	Dimension	95.5mm(W)×208mm(D)×40.8mm(H)			
	Weight	≤1.1kg	≤1.5kg		
	Cooling mode	Forced cooling			
	Power factor	≥0.99			
	THD	≤5%			
Controller	Type	SMU01A	SMU01B	SMU01C	
	Signal input	7 DI, 2 AI			2 DI
	Alarm output	8 dry contact			4 dry contact
	Communication port	RS232, RS485, FE		RS232, RS485	
	Display mode	LCD			

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