

# Embedded DC Power System

## ETP4890-A2



### Introduction

ETP4890-A2 embedded DC power system can convert from AC input to stabilized -48V DC output. It can be compatible with 15A and 30A rectifiers and provide 90A output with 2U in height. ETP4890-A2 can be embedded in 19-inch rack or cabinet or other scenarios. The system can provide excellent performance such as intelligent battery management, remote management, etc.



ETP4890-A2

### 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



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)×86.1mm(2U,H)		
	Weight	≤10kg(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 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	4.8kW		
	Battery breakers	1×80A		
	Load breakers	1×10A, 1×30A, 2×40A		
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)	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
	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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HUAWEI TECHNOLOGIES CO., LTD.

Huawei Industrial Base  
Bantian Longgang  
Shenzhen 518129, P.R. China  
Tel: +86-755-28780808  
www.huawei.com