

# Embedded DC Power System

## Introduction

E24100 is an AC/DC embedded power system with Excellent performance such as high power efficiency, intelligent battery management, remote management, wide range of AC input voltage, etc. The system can configure 2 pieces of 1U 50A high rectifier modules, and provides 100A rated current output. E24100 can be embedded in 19-inch rack or cabinet.



## Features

- 1U rectifier: high density, high efficiency, excellent high temperature performance(full load @ 55°C).
- Wide operation temperature range of embedded power from -40°C to 70°C.
- Hot-swappable rectifiers provide easy installation and maintenance.
- Standard installation structure design, adapt to various scenarios.
- Compact design(only 1U in height), saving space and installation cost.
- Excellent rectifier dormancy function helps increase 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 (options).

## Application Scenarios

- Wireless base station.
- Transmission network.
- Communication network of enterprises.

## Specifications

### System

Dimension	440mm(W)×354mm(D)×44mm(H)
Weight	≤8.5kg
Cooling mode	Natural cooling
Installation mode	Installed on 19-inch rack or inside the cabinet
Cabling mode	Front inlet and Front outlet
Maintenance mode	Front maintenance, support module grade change
Protection level	IP20

### AC Distribution

Input mode	220VAC single phase
Input capacity	40A terminal
Output capacity	N/A
Input frequency	45~66Hz, rated value: 50Hz/60Hz
SPD	20kA/40kA, 8/20μs

### DC Distribution

Output voltage	-21~-29VDC, rated value: -26.7VDC
Maximum capacity	3000W
Battery Fuse	1×40A/
Load Fuse	1×80A; 1×40A;
SPD	N/A

### Rectifier

Input voltage	85VAC~290VAC, rated 220VAC
Efficiency	R241500H > 94% Peak
Rated power	1500W(110~270VAC)
Working temperature	R241500H -40°C~+80°C (full load @ 55°C)
Dimension	106mm(W)×286mm(D)×42.5mm(H)
Weight	≤1.9kg
Cooling mode	Forced cooling
Power factor	≥0.99
THD	≤5%

### Controller

Signal input	1 Battery temp, 1 ambient temp & 2 common DI
Alarm output	4 dry contact
Communication port	SNMP
Display mode	LCD

### Environment

Operating temperature	-40°C~+70°C
Storage temperature	-40°C~+70°C
Operating humidity	5%~95% (non-condensing)
Altitude	0~2000m