

EPC Outdoor DC Power Systems

■ DC Power System for
Business-Critical Continuity

Power Availability

System Features

- Resistant to adverse environment: water, dust, dampness or corrosion
- Advanced heat exchanger, independent internal and external circulation and effective dust resistance and heat radiation
- Mature power system, stable and reliable
- Modular structure, separate installation of power supply chamber and battery chamber

Benefits

- Suitable for all markets. Short construction period enabling speedy business operation
- Flexible in configuration and suitable for various equipment and power grids
- Easy to move and reusable
- Integral solution and all-round service

Introduction

Emerson EPC Outdoor DC Power systems Units are a perfect combination of the reliable Emerson communication power systems and high-quality outdoor protective cabinets. They provide outdoor communication equipment with stable and reliable power supply.

Applications

- Outdoor mobile base stations
- Access network
- Communication exchanges that require outdoor power supply



System Configuration

| Model | System Capacity | Rectifier Module | Monitor Module | Heater | Remarks |
|-------------|-----------------|--------------------------|----------------|--------|---------------|
| EPC4875/25A | 48V75A | HRS1450-9000, 2 ~ 3units | PSM-D1 | - | Southern Type |
| EPC4875/25B | 48V75A | HRS1450-9000, 2 ~ 3units | PSM-D1 | Yes | Northern Type |

*Remote controller PSM-ST01(for displaying and parameter setting) is available.

AC/DC Power Distribution

| | EPC4875/25A(B) | Remarks |
|-----------|--------------------------|------------------------------|
| AC Input | Single-phase 63A×1 Route | Level C lightning protection |
| DC Output | 32A×2Routes, 20A×3Routes | LLVD |
| | 16A×3Routes | BLVD |

Power System Parameters

| Parameters | Values | Remarks |
|-----------------------|----------------|----------------------------|
| Input voltage range | 90 ~ 290V | Single-phase 3-wire system |
| Input frequency range | 45 ~ 65Hz | |
| Rated output voltage | -48V | |
| Output voltage range | -43.2 ~ -57.6V | |
| Module output power | 1450W | HRS1450-9000 |

Embedded Batteries

| System Configuration | 48V100Ah one or two strings | 48V165AH one or two strings |
|----------------------|-----------------------------|-----------------------------|
| Cell capacity | 12V100Ah | 12V165Ah |
| Cell model | T12V100SEF/A | T12V165SEF/A |
| Cell size | 107W×520D×263H(mm) | 125W×528D×318H(mm) |
| Cell weight | 37kg | 55kg |

Cabinet Specifications

| Parameters | Values | Remarks |
|---------------------|------------|------------------------------|
| Protection | level | IP55 Without battery chamber |
| Ambient temperature | -40℃ ~ 45℃ | Northern type |
| | -5℃ ~ 45℃ | Southern type |
| Noise | ≤65dB | |

Mechanical Parameters

| | | |
|--|-------------------------|------------------------------------|
| Cabinet external dimensions | 600W × 600D × 1500H(mm) | Without Sunshade |
| Battery chamber external dimensions | 600W × 600D × 750H(mm) | |
| Single-layer battery chamber internal dimensions | 520W × 560D × 328H(mm) | Southern type |
| | 520W × 540D × 328H(mm) | Northern type |
| Weight | 110kg | Without power module and batteries |



HRS1450-9000

Emerson Network Power.
The global leader in enabling business-critical continuity.

AC Power Systems
Connectivity
DC Power Systems

Embedded Power
Inbound Power
Integrated Cabinet Solutions

Outside Plant
Precision Cooling
Site Monitoring and Services

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