

EPC48120 Series

Outdoor Enclosures



Key Features

- Modular design & integrated solution - facilitates easy & fast deployment of outdoor base stations.
- High degree of Ingress Protection i.e. IP55, isolates the influences of severe outdoor conditions and ensures the reliable operation of the electronic equipments.
- Flexible to install: Adapts to various installation modes, including roof/ground platform, H-pole, and tower platform.
- Easy to maintain: Full frontal access & a concurrent hot plug for easy maintenance and upkeep.
- Multiple networking interfaces such as dry contacts & RS232 - facilitates local & remote monitoring management.
- Excellent battery management function: battery float/boost charge, online discharge test & temperature compensation, which can effectively prolong the service life of the battery.
- Integrated surge protection at the AC side and DC side .
- **Energy-saving function:** Embedded with an advanced energy optimization technique ensuring high efficiency at varying load levels.

Description

The EPC48120 series is an integrated communication power supply solution for outdoor applications, developed by Vertiv, based on several years of experience in R&D and design of communication powers and outdoor cabinets. It mainly comprises of centralized power supply, supervision module, AC/DC distribution unit, lightning protection system, temperature control system, anti-theft system, battery chamber, equipment chamber, and 8U user space. It is also configured to bring an alternate solar energy source for the sites. It comes in two variants i.e. south & north type based on ambient temperature and further sub classified according to the cabinet dimensions i.e. integrated (A/C) and split type (B/D) cabinets. It is equipped with advanced supervision & control module which ensures superior efficiency, optimal temperature control, prolongs the service life of the battery, and reduces the noise.

Applications

- Outdoor communication base stations
- Outdoor communication access points
- Communication stations with outdoor power supply



South type integrated cabinet
EPC48120/1800-HA5



North type integrated cabinet
EPC48120/1800-HB5



South type split-type cabinet
EPC48120/1800-HC5



North type split-type cabinet
EPC48120/1800-HD5

| System setting | |
|--------------------|---|
| Configuration | Description |
| System capacity | 120A |
| Monitoring | 4 x R48-2000A3, R48-2000e3 |
| Module | M521S |
| AC distribution | AC Input: 1 x 63A/2P, single phase AC output: one universal socket |
| Battery connection | 2 x 63A/1P |
| DC distribution | Load LVD: 2 x 63A/1P, 2 x 50A/1P, 2 x 32A/1P, 2 x 16A/1P Battery LVD: 1 x 32A/1P, 2 x 16A/1P |
| User space | 8U |
| Heater | Equipment compartment: 630W battery compartment: 630W (for the North type) |
| Options | Battery theft-proof baffle plate, padlock |



EPC48120/1800-HA(B)5

| Electric Parameters | |
|-----------------------|--|
| System Parameters | Description |
| Operating temperature | -10°C ~ +45°C (South type model), -40°C ~ +45°C (North type model) |
| Storage temperature | -45°C ~ +70°C |
| Relative humidity | 5%RH ~ 100%RH |
| Altitude | ≤2000m (derated when the altitude is above 2000m) |
| Input voltage range | 85Vac ~ 300Vac |
| Input frequency | 45Hz ~ 65Hz |
| Power factor | ≥0.99 |
| Output voltage range | 42Vdc ~ 58Vdc |
| System efficiency | Normal: >94%, efficient: >96% |
| AC SPD | C-level SPD: In=20kA, Im=40kA |
| DC SPD | DC side SPD: In=10kA |



EPC48120/1800-HC(D)5

| Mechanical Parameter | | |
|-------------------------------------|-------------------------------|--|
| Cabinet Dimensions (W x D x H) (mm) | South type integrated cabinet | 600mm (W) × 610mm (D) × 1570mm (H) |
| | North type integrated cabinet | 600mm (W) × 610mm (D) × 1570mm (H), the depth includes 80mm projecting portion |
| | Battery chamber dimensions | 575mm (W) × 570mm (D) × 330mm (H), two layers, integrated cabinet |
| | Split-type cabinet | 600mm (W) × 610mm (D) × 840mm (H), no battery chamber |
| Weight (kg) | Integrated cabinet | ≤110 |
| | Split-type cabinet | ≤60 |