

Embedded Telecom Power System - E48 Series

Overview

E48 series embedded power system uses 19" standard cabinet structure design, and can be directly installed in indoor and outdoor cabinet for use. When connected with the battery, it can provide an uninterrupted UPS power system. It meets the development trend of telecom base station, saves construction cost, shortens construction time, with wide working temperature range, and meets the demand of high level users.

Features

- AC input voltage range: 90VAC~305VAC;
- Active power factor compensation, PF≥ 0.99;
- Efficiency for normal module: 92%;
- Efficiency for high efficient module: 95%;
- Digital boost by software , boost tolerance≤ ±5%;
- AC harmonic current distortion≤5%;
- Working temperature: -40℃ ~75℃ ;
- Accord with UL, CE standard requirements;
- Advanced EMC design, low radiation, meet CE & FCC Class B requirements;
- Reliable operation with full system status detection, control, alarm and protection functions.
- All positive interface operation, plug and play, which makes the operation and maintenance more safe, convenient and fast.
- Perfect battery management functions, has the temperature compensation, battery protection, charging current limit and battery capacity calculation functions.
- CAN bus distributed digital control, intelligent internet monitoring design, providing a variety of communication interfaces such as RS-232, RS-485, SNMP telecom and dry contact alarm interface, flexible networking, remote monitoring, unattended.



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Application

Embedded power system is applied to switching cabinet, all mobile telecom base stations, comprehensive access network site, data center, lighting system and power distribution system.

Item list

NO.	Model No.	System capacity	Rectifier	Controller	Dimensions (W×D×H mm)	Height
1	E4840	-48V/40A	R481200E/R481200H	MQ48D	440×340×43.7	1U
2	E4860	-48V/60A	R482000E/R482000H	MQ48D	440×340×43.7	1U
3	E4890	-48V/90A	R482000E/R482000H	MQ48D	440×348×87.5	2U
4	E48120	-48V/120A	R482000E/R482000H	MQ48D	440×344×131.1	3U
5	E48200	-48V/200A	R483000E/R483000H	MQ48D	440×344×221	5U

System Composition

For example:

E4840 system is composed of a control module, rectifier module, distribution unit.

Item		Description	Note
Controller		MQ48D	1 pc
Rectifier Module		R481200E/R481200H	2 pcs
System Capacity		48V/30A consist of 2 rectifier modules, the capacity of one single module is 48V/20A	
Distribution Unit	AC	Single phase 220VAC	
	DC	Load shunt: 10A×2, with FUSE	optional
		Battery shunt: 30A×1, with MCB	with battery protection

※Can be customized according to customer needs.