

Embedded DC Power System

E48120-I

1.Introduction:

E48120-I 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 4 pieces of 1U 30A high rectifier modules, and provides 120A rated current output. E48120-I can be embedded in 19-inch rack or cabinet.



2.Features:

- 1U rectifier: high density, high efficiency, excellent high temperature performance(full load @ 50℃、55℃)
- Wide operation temperature range of embedded power from -40℃ to 80℃
- Hot-swappable rectifiers provide easy installation and maintenance
- Standard installation structure design, adapt to various scenarios
- Compact design(only 3U 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)

3.Application Scenarios:

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

4.Specifications:

Type	E48120-I
System	Dimension
	440mm(W)×350mm(D)×132(H)
	Weight
	≤21kg
	Cooling mode
	Natural cooling
	Installation mode
AC Distribution	Installed on 19-inch rack or inside the cabinet
	Cabling mode
	Front inlet and Front outlet
	Maintenance mode
	Front maintenance, support module grade change
DC Distribution	Protection level
	IP20
	Input mode
	220VAC single phase
	Input capacity
Rectifier	1×63A/2P or terminal
	Output capacity
	NA
	Input frequency
	45~66Hz, rated value: 50Hz/60Hz
Controller	SPD
	20kA/40kA, 8/20μs
	Output voltage
	-42~-58VDC, rated value: -53.5VDC
	Maximum capacity
Environment	8000W
	Battery breakers
	1×100A/1P
	Load breakers
	1×80A,6×30A
AC Distribution	SPD
	10kA/20kA, 8/20μs(Optional)
	Input voltage
	85VAC~300VAC, rated 220VAC
	Efficiency
Rectifier	R482000H1 > 95% Peak, R482000E1 > 92%
	Rated power
	2000W(176~300VAC)
	Working temperature
	R482000H 1-40℃~+85℃(full load @ 55℃), R482000E1 -40℃~+80℃(full load @ 50℃),
Controller	Dimension
	70.3mm(W)×278mm(D)×42.5mm(H)
	Weight
	≤1.2kg
	Cooling mode
Environment	Forced cooling
	Power factor
	≥0.99
	THD
	≤5%
Signal input	1 Battery temp., 1 ambient temp, 1 smoke, 1 gate, 2common DI
	Alarm output
	4 dry contact
	Communication port
Display mode	RS232/485, SNMP(Optional)
	LCD
	Operating temperature
	-40℃~+80℃
Storage temperature	-40℃~+70℃
	Operating humidity
	5%~95%(non-condensing)
	Altitude
	0~2000m