

Embedded Power System

EU48100

1.Introduction:

EU48100 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, 1 pieces of 1U 1250VA inverter modules, and provides 100A rated current output, 1250VA AC output.

EU48100 can be embedded in 19-inch rack or cabinet.



2.Features:

- 1U rectifier: high density, high efficiency, excellent high temperature performance(full load @ 55℃)
- Wide operation temperature range of embedded power from -40℃ to 60℃
- Hot-swappable 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		EU48100
System	Dimension	440mm(W)×354mm(D)×133mm(H)
	Weight	≤14kg
	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,range:85V ~ 300VAC
	Input capacity	63A/2P
	Output capacity	10A*1、 5A*2
	Input frequency	45~66Hz, rated value: 50Hz/60Hz
	SPD	20kA/40kA, 8/20μs
DC Distribution	Output voltage	-42~-58VDC, rated value: -53.5VDC
	Maximum capacity	100A
	Battery breakers	1×100A/1P
	Load breakers	1×80A,6×30A
	SPD	NA
Rectifier	Input voltage	85VAC~300VAC, rated 220VAC
	Efficiency	R483000H1 > 96% Peak
	Rated power	3000W(176~290VAC)
	Working temperature	R483000H1 -40℃~+85℃(full load @ 55℃)
	Dimension	106mm(W)×286mm(D)×42.5mm(H)
	Weight	≤1.9kg
	Cooling mode	Forced cooling
	Power factor	≥0.99, (@230Vac, full load)
	THD	≤5%, (@230Vac, full load)
Inverter	Input voltage	44~ 60VDC; 40~ 44VDC (output power 900VA)
	Efficiency	> 93% Peak
	Rated power	1250VA (44~ 60VDC;)
	Working temperature	-40℃~+60℃
	Dimension	106mm(W)×287mm(D)×42.5mm(H)
	Weight	≤1.7kg
Controller	Signal input	1 Battery temp., 1 ambient temp, 1 smoke, 1 gate, 2common DI
	Alarm output	4 dry contact
	Communication port	RS232/485, SNMP
	Display mode	LCD
Environment	Operating temperature	-40℃~+60℃
	Storage temperature	-40℃~+70℃
	Operating humidity	5%~95%(non-condensing)
	Altitude	0~2000m