Magnizon Embedded Telecom DC power supply

EPS48-4K1U 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 2000W rectifier modules, and provides 4000W rated power output. EPS48-4K1U can be embedded in 19-inch rack or cabinet.

Applications

- Fiber optic network and data room
- Wireless communications
- Broad band and network access
- Telecom roadside cabinets
- Satellite communications ground stations
- BTS 4G/5G Base station
- Manufacturing industry
- Transmission network
- Communication network of enterprises

Key Feature

- Nominal AC input：85Vac～300Vac
- Wide Working Temperature range：-40ºC～+85ºC
- Active power factor correction：PF≥0.99
- Output terminal with hot plug connector
- Hot-swappable rectifiers provide easy installation and maintenance
- 1U rectifier: high density, high efficiency, excellent high temperature performance (full load @ 60℃)
- Excellent rectifier dormancy function helps increase system efficiency
- N+1 redundancy configure with simple front panel configuration or full capacity load support of 4000W
- Digitalized Control: Digitalized primary and secondary controls could realize excellent monitoring and regulation
- High Reliability Design: Fan front to back air flow with latest thermal solution and experienced electric synthetize ensure suitable working environment and high reliability
- Disconnects input Mains when hazardous
- Excellent EMC performance
- 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)

Compliance standards

- ISO9001:2015, ISO14001:2015, RoHs, CE

- Electrical Safety: IEC60950/ UL60950, EN55022 Class B (emission)

- EMC: IEC61000-4-2/3/4/5/6, IEC61000-4-11

- Harmonics: IEC61000-3-2, IEC61000-3-3

Specifications

Type	EPS48-4K1U
SYSTEM	
Dimension	440mm(W)×344mm(D)×44mm(H)
Weight	≤5.5kg (without rectifiers)
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
Protection level	IP20
Alarm interface	FAN1,FAN2,DOOR,SMOKE
AC DISTRIBUTION	
Input mode	220VAC single phase
Input capacity	1×32A/2P or terminal
Output capacity	NA
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	4000W
Battery breakers	1×50A/1P
Load Fuse	2×40A
Fan power supply	FAN1,FAN2
RECTIFIER	
Input voltage	85VAC～300VAC, rated 220VAC
Efficiency	R482000H > 96%Peak, R482000E > 92%
Rated power	2000W(176~300VAC)
Working temperature	R482000H -40℃~+85℃(full load @ 55℃), R482000E -40℃~+80℃(full load @
Dimension	70.3mm(W)×278mm(D)×42.5mm(H)
Weight	≤1.2kg
Cooling mode	Forced cooling
Power factor	≥0.99
THD	≤5%
CONTROLLER	
Signal input	1 Battery temp., 1 ambient temp, 1 smoke, 1 gate, 1 water, 2common DI
Alarm output	4 dry contact

Communication port	RS232/485, SNMP(Optional)
Display mode	LCD
ENVIRONMENT	
Operating temperature	-40℃~+65℃
Storage temperature	-40℃~+70℃
Operating humidity	5%~95%(non-condensing)
Altitude	0~2000m