

MODEL # EPS48-4K1U**Magnizon Embedded Telecom DC power supply****Product Description**

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: -40°C ~ +85°C
- 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°C)
- 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 synthesize 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

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- 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

| MODEL | 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°C~+85°C(full load @ 55°C), R482000E -40°C~+80°C(full load @ 50°C), |
| Dimension | 70.3mm(W)×278mm(D)×42.5mm(H) |
| Weight | ≤1.2kg |

MODEL # EPS48-4K1U

| | |
|-----------------------|---|
| 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°C~+65°C |
| Storage temperature | -40°C~+70°C |
| Operating humidity | 5%~95%(non-condensing) |
| Altitude | 0~2000m |

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