

## MODEL # EPS48-6K1U

### Magnizon Embedded Telecom DC power supply

#### Product Description

EPS48-6K1U 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 3000W rectifier modules, and provides 6000W rated power output. EPS48-6K1U 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 6000W
- 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

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- 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

| MODEL                  | EPS48-6K1U  |
|------------------------|---|
| <b>SYSTEM</b>          |   |
| Dimension              | 440mm(W)×344mm(D)×44mm(H)   |
| Weight                 | ≤6.5kg (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, support module grade change                                  |
| Protection level       | IP20  |
| Alarm interface        | FAN1,FAN2,DOOR,SMOKE(Optional)---- Rear inlet                                   |
| <b>AC DISTRIBUTION</b> |   |
| Input mode             | 220VAC single phase   |
| Input capacity         | 40A terminal  |
| Output capacity        | NA  |
| Input frequency        | 45~66Hz, rated value: 50Hz/60Hz   |
| SPD                    | 20kA/40kA, 8/20μs   |
| <b>DC DISTRIBUTION</b> |   |
| Output voltage         | -42~-58VDC, rated value: -53.5VDC   |
| Maximum capacity       | 6000W   |
| Battery Fuse           | 1×40A   |
| Load Fuse              | 1×80A; 1×40A;   |
| SPD                    | 10kA/20kA, 8/20μs(Optional)   |
| <b>RECTIFIER</b>       |   |
| Input voltage          | 85VAC~300VAC, rated 220VAC  |
| Efficiency             | R483000H > 96%Peak, R483000E > 92%  |
| Rated power            | 3000W(176~300VAC)   |
| Working temperature    | R483000H -40°C~+85°C(full load @ 55°C), R483000E -40°C~+80°C(full load @ 50°C), |

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|                       |   |
|-----------------------|---|
| Dimension             | 106mm(W)×298mm(D)×42.5mm(H)                 |
| Weight                | ≤1.6kg                                      |
| Cooling mode          | Forced cooling                              |
| Power factor          | ≥0.99                                       |
| THD                   | ≤5%   |
| <b>CONTROLLER</b>     |   |
| Signal input          | 1 Battery temp., 1 ambient temp, 2common DI |
| Alarm output          | 4 dry contact                               |
| Communication port    | RS232/485, SNMP(Optional)                   |
| Display mode          | LCD   |
| <b>ENVIRONMENT</b>    |   |
| Operating temperature | -40°C~+65°C                                 |
| Storage temperature   | -40°C~+70°C                                 |
| Operating humidity    | 5%~95%(non-condensing)                      |
| Altitude              | 0~4000m                                     |

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