



Powering Business Worldwide

Important Note

This Eaton DIN Rail Industrial UPS requires the BPDIN24XL extended battery module (sold separately) to operate. Up to four BPDIN24XL EBMs can be connected to extend backup runtime.

Eaton 240W 24V DC DIN Rail Industrial UPS - Hardwire Input/Output

MODEL NUMBER: **DIN24240DC**



DIN rail UPS battery backup offers network-grade power protection for industrial and machine control installations.

Features

Flexible Power Protection for Smart Industrial Applications

The DIN24240DC standby UPS system with hardwire DC input/output delivers reliable power and battery backup for computing, networking, control and storage equipment in factories, warehouses, edge computing locations and automated manufacturing and fabrication facilities. The rugged compact housing withstands demanding conditions and integrates seamlessly and securely into electrical enclosures in any non-traditional IT environment.

Ideal for Factory Floors and Extreme Temperatures

Get full use of the DIN24240DC's power capacity because there is no derating based on its operating temperature range of -15°C (5°F) to 50°C (122°F), which expands the number of locations in which it can be used. Built to fit into small spaces, the DIN24240DC is a UL 508 recognized component for use in industrial panels. Its pre-installed clamp enables quick mounting to a 35 mm DIN rail. Its fanless design reduces noise and increases reliability.

Reliable Battery Backup Keeps You Operational Through Power Outages

Power outages not only drain productivity from the factory floor, but they also damage expensive equipment. The DIN24240DC protects productivity by providing enough runtime to maintain operation during a brief power outage and protects equipment by allowing it to complete an operation during an extended outage. It also prevents brownouts, overvoltages, surges and line noise from damaging equipment that could destroy data and contribute to costly downtime.

Stay in Control of Your Operation

LEDs on the front panel confirm normal operation and indicate alarm or fault status. Remote on/off can help you avoid maintenance surprises. The DIN24240DC has dry contacts for battery status and UPS communication.

Easy Preventative Maintenance and Initial Troubleshooting

The DIN24240DC requires connection of the BPDIN24XL external battery module (sold separately). Up to

Highlights

- Recommended for industrial locations where temperatures range within -15°C and 50°C
- Protects equipment against blackouts, brownouts, overvoltages, surges and line noise
- Keeps power running during brief outages to allow time for safe system shutdown
- Built-in clamp mounts easily to a "top hat" 35mm DIN rail with no mounting screws or brackets required
- **Requires Eaton BPDIN24XL extended battery module for operation (sold separately)**
- Add up to 4 external battery modules (BPDIN24XL) to extend backup runtime

Package Includes

- DIN24240DC 240W 24V DIN Rail Industrial UPS
- Safety card
- Owner's manual



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four battery modules can be connected to extend backup runtime. The self-test capability can extend the life of the UPS and minimize disruption to operations.

Specifications

| OVERVIEW | |
|--|--|
| UPC Code | 037332274939 |
| UPS Type | Standby |
| INPUT | |
| Input Phase | Single-Phase |
| Rated input current (Maximum Load) | 10A |
| Nominal Input Voltage(s) Supported | 24V DC |
| UPS Input Connection Type | Hardwire |
| UPS Input Connection Description | Recommended Wire Gauge AWG (mm2): 16 (1.5) |
| Recommended Electrical Service | 10A 24V DC |
| OUTPUT | |
| Output Capacity (VA) | 240 |
| Output Capacity (kVA) | 0.24 |
| Output Capacity (Watts) | 240 |
| Output Capacity (kW) | 0.24 |
| Output Capacity Details | 10A 24V DC connected with user-supplied wiring for UPS and Extended Battery Module connection. |
| Power Factor | 1 |
| Nominal Voltage Details | 24V DC NOMINAL |
| Output Voltage Regulation (Battery Mode) | +/- 10% |
| Output Receptacles | (1) Hardwire |
| Individually Controllable Load Banks | No |
| BATTERY | |
| Battery Type | Valve Regulated Lead Acid (VRLA) |
| Runtime Full Load (min.) | 10 min. (240W) |
| Runtime Half Load (min.) | 20 min. (120W) |
| Expandable Runtime | Yes |
| Expandable Runtime Description | Up to 4 BPDIN24XL ; 24VDC DIN Rail Extended Battery Modules can be used to increase the runtime |
| External Battery Pack Compatibility | BPDIN24XL ; |



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| DC System Voltage (VDC) | 24 |
| Battery Recharge Rate (Included Batteries) | 0.5A Maximum; Less than 8 hours from 10% to 90% |
| Battery Access | Battery access cover |
| USER INTERFACE, ALERTS & CONTROLS | |
| Diagnostic LED(s) | Yes |
| Switches | Power ON/OFF - Momentary push button |
| LED Indicators | POWER (GREEN)- LINE MODE ON (SOLID) BATTERY MODE (FLASHING) FAULT (RED) - FLASHING |
| PHYSICAL | |
| Primary Form Factor | DIN-Rail |
| Cooling Method | Convection |
| Shipping Dimensions (hwd / in.) | 2.16 x 7.59 x 7.32 |
| Shipping Weight (kg) | 0.52 |
| UPS Housing Material | Steel |
| Unit Dimensions (hwd / in.) | 4.880 x 1.570 x 5.060 |
| Unit Weight (lbs.) | 0.930 |
| Unit Weight (kg) | 0.42 |
| ENVIRONMENTAL | |
| Operating Temperature Range | 5° to 122°F (-15° to 50°C) |
| Storage Temperature Range | 5° to 104°F (-15° to 40°C) |
| Relative Humidity | 0-95%, non-condensing |
| Operating Elevation | 0-10000 ft. (0-3000 m) |
| Audible Noise | 40 dBA at 1 meter |
| COMMUNICATIONS | |
| Communications Interface | (5) Contact closure |
| Emergency Power Off (EPO)/Remote On-Off (ROO) | Yes |
| LINE / BATTERY TRANSFER | |
| Transfer Time | <1ms |
| Low Voltage Transfer to Battery Power (Setpoint) | 21.6V +/-0.05V |
| High Voltage Transfer to Battery Power (Setpoint) | 28.6V +/-0.05V |
| FEATURES & SPECIFICATIONS | |



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| Cold Start (Startup in Battery Mode During a Power Failure) | Cold Start operation supported |
| High Availability UPS Features | Surge/noise protection |
| Green Energy-Saving Features | Greater than 95% efficiency - GREEN UPS |
| APPLICATIONS | |
| UPS Applications | Extreme Temperature Applications; Industrial |
| STANDARDS & COMPLIANCE | |
| Product Certifications | CAN/CSA-C22.2 No. 62368-1 (Canada); CSA (Canada); ICES (Canada); IEC 62368-1; UL 508; UL 62368-1; UL 508 |
| Product Compliance | CE (Europe); FCC (USA); FCC Part 15 Class A (USA); REACH; RoHS; RoHS3; UKCA; WEEE |
| WARRANTY & SUPPORT | |
| Product Warranty Period (Worldwide) | 2-year limited warranty |

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