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 480W 24V DC DIN Rail Industrial UPS - Hardwire Input/Output

MODEL NUMBER: **DIN24480DC**







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

Highlights

- Recommended for industrial locations where temperatures range within 0°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

- DIN24480DC 480W 24V DIN Rail Industrial UPS
- Safety card
- Owner's manual

Features

Flexible Power Protection for Smart Industrial Applications
The DIN24480DC 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 DIN24480DC's power capacity because there is no derating based on its operating temperature range of 0°C (32°F) to 50°C (122F), which expands the number of locations in which it can be used. Built to fit into small spaces, the DIN24480DC 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 DIN24480DC 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 DIN24480DC has dry contacts for battery status and UPS communication.

Easy Preventative Maintenance and Initial Troubleshooting
The DIN24480DC requires connection of the BPDIN24XL external battery module (sold separately). Up to

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	037332279361
UPS Type	Standby
INPUT	
Input Phase	Single-Phase
Rated input current (Maximum Load)	20A
Nominal Input Voltage(s) Supported	24V DC
UPS Input Connection Type	Hardwire
UPS Input Connection Description	Recommended Wire Gauge AWG (mm2): 12 (4)
Recommended Electrical Service	20A 24V DC
OUTPUT	
Output Capacity (VA)	480
Output Capacity (kVA)	0.48
Output Capacity (Watts)	480
Output Capacity (kW)	0.48
Output Capacity Details	20A 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
BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	3 min. (480W)
Runtime Half Load (min.)	10 min. (240W)
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
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.)	5.060 x 1.570 x 4.880
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	0-6562 ft. (0-2000 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±0.5
High Voltage Transfer to Battery Power (Setpoint)	28.6V±0.5
FEATURES & SPECIFICATIONS	
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; CAN/CSA-C22.2 No. 62368-1 (Canada); ICES (Canada); IEC 62368-1; UL 508; UL 62368-1; UL 508; NOM (Mexico)
Product Compliance	FCC (USA); FCC Part 15 Class A (USA); REACH; RoHS; RoHS3; UKCA; WEEE
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year limited warranty

1000 Eaton Boulevard
Cleveland, OH 44122
United States
https://tripplite.eaton.com

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