Eaton 850VA 510W 120V AC DIN Rail Industrial UPS - Hardwire Input/Output

MODEL NUMBER: **DIN850AC**







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 DIN850AC standby UPS system with hardwire AC 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 DIN850AC'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 DIN850AC 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 DIN850AC 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.

Convenient Automatic Restart
The DIN850AC automatically restarts when AC power is restored after an outage, eliminating the need for a costly site visit.

Stay in Control of Your Operation
LEDs on the front panel confirm normal operation and indicate alarm or fault status. Remote on/off and a battery indicator mode can help you avoid maintenance surprises. The DIN850AC is compatible with PowerAlert® Office software for UPS monitoring and control via USB connection.

Easy Preventative Maintenance and Initial Troubleshooting
The DIN850AC's self-test capability and user-replaceable internal battery can extend the life of the UPS and minimize disruption to operations. A resettable circuit breaker helps prevent dangerous system overloads.

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
- Restarts automatically when power is restored, eliminating a costly site visit
- Built-in clamp mounts easily to a "top hat" 35mm DIN rail with no mounting screws or brackets required

Package Includes

- DIN850AC 850VA 510W 120V DIN Rail Industrial UPS
- USB communication cable
- Safety card
- Owner's manual

Powering Business Worldwide

Specifications

OVERVIEW	
UPC Code	037332274922
UPS Type	Standby
INPUT	
Input Phase	Single-Phase
Rated input current (Maximum Load)	10A
Nominal Input Voltage(s) Supported	120V AC
UPS Input Connection Type	Hardwire
UPS Input Connection Description	Recommended 14 AWG 194°F(90°C) rated copper wire
Input Circuit Breakers	10A
Recommended Electrical Service	15A 120V
OUTPUT	
Output Capacity (VA)	850
Output Capacity (kVA)	0.85
Output Capacity (Watts)	510
Output Capacity (kW)	0.51
Power Factor	0.6
Nominal Voltage Details	120v nominal output in battery mode
Frequency Compatibility	50 / 60 Hz
Frequency Compatibility Details	50 or 60Hz +/- 10% (Auto-sensing)
Output Voltage Regulation (Battery Mode)	+/- 10%
Output AC Waveform (AC Mode)	Sine wave
Output AC Waveform (Battery Mode)	PWM sine wave
Nominal Output Voltage(s) Supported	120V
Output Receptacles	(1) Hardwire
BATTERY	
Battery Type	Valve Regulated Lead Acid (VRLA)
Runtime Full Load (min.)	2 min. (510W)
Runtime Half Load (min.)	7 min. (255W)
Expandable Runtime	No

DC System Voltage (VDC)	12
Battery Recharge Rate (Included Batteries)	0.7A Maximum; Less than 8 hours from 10% to 90%
Battery Access	Top-mounted battery access panel
Internal UPS Replacement Battery Cartridge	RBC12V9ET
USER INTERFACE, ALERTS & CONTROLS	
Switches	Power ON/OFF/TEST - Momentary push button
Alarm Cancel Operation	Press and hold On/Off/Test button for 1 second
Audible Alarm	Yes
LED Indicators	ALARM - RED - Flashes when the battery needs to be recharged and tested. SOLID RED when the unit is subjected to an overload condition. YELLOW - ON SOLID when the UPS is supplying battery power to the loads. GREEN - ON SOLID GREEN when the line input voltage is normal.
SURGE / NOISE SUPPRESSION	
EMI / RFI AC Noise Suppression	Yes
AC Suppression Joule Rating	588
PHYSICAL	
Primary Form Factor	DIN-Rail
Cooling Method	Convection
Shipping Dimensions (hwd / in.)	15.87 x 7.95 x 7.72
Shipping Weight (kg)	6.00
UPS Housing Material	Steel
Unit Dimensions (hwd / in.)	5.220 x 12.280 x 5.500
Unit Weight (lbs.)	12.125
Unit Weight (kg)	5.50
ENVIRONMENTAL	
Operating Temperature Range	32° to 122°F (0° to 50°C)
Storage Temperature Range	5° to 122°F (-15° to 50°C)
Relative Humidity	0% to 95%, Non-Condensing
AC Mode BTU / Hr. (Full Load)	52.169
AC Mode Efficiency Rating (100% Load)	97%
Operating Elevation	0-10000 ft. (0-3000 m)
Audible Noise	40 dBA at 1 meter
COMMUNICATIONS	
PowerAlert Software	PowerAlert Office

Communications Cable	USB 2.0 Cable
Network Management Card Description	Network management not supported
Communications Interface	(1) USB (HID enabled)
Emergency Power Off (EPO)/Remote On-Off (ROO)	Yes
LINE / BATTERY TRANSFER	
Transfer Time	<8ms typical, 10ms max
Low Voltage Transfer to Battery Power (Setpoint)	87V
High Voltage Transfer to Battery Power (Setpoint)	144V
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; High efficiency economy mode operation
APPLICATIONS	
UPS Applications	Extreme Temperature Applications; Industrial
STANDARDS & COMPLIANCE	
Product Certifications	CAN/CSA-C22.2 No. 107.3 (Canada); CSA (Canada); ICES (Canada); UL 1778; UL 508; NOM (Mexico)
Product Compliance	FCC Part 15 Class B (USA); RoHS
WARRANTY & SUPPORT	
Product Warranty Period (Worldwide)	2-year limited warranty

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