

*Power You Can  
Depend On*



# MRX Series

**Valve Regulated Lead Acid**

— Optimized UPS Configuration



## High Rate Max<sup>XT</sup>



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# MRX Series

**HIGH  
RATE  
MAX<sup>XT</sup>**



## Valve Regulated Lead Acid Battery Designed for UPS Standby Power Applications

### Applications

- Data Centers
- Network Operation Centers
- Industrial Process Control Facilities
- Internet Housing Sites
- Semiconductor Manufacturing
- Banks and Financial Markets
- Power Generation Plants
- Hospital and Testing Laboratories
- Emergency Response Center

### Features and benefits

- Design life : 8 years (<100WPC)  
12 years(≥100WPC)
- Eurobat Classification : Long Life
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance
- Long Life Alloy having very low calcium levels in the industry -minimizing grid growth, reducing gassing, and extending battery life
- UL Recognized Flame-arresting vents in each cell for safety and long life
- Designed with the same recombination, thermal runaway prevention, gassing and flame retardant characteristics of the Bellcore 4228 compliant Dynasty Telecom products
- Flame retardant polypropylene case and cover compliant with UL94 V-0(≥100 MRX)
- Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection
- Thermally welded case-to-cover bond to eliminate leakage
- Not restricted for air transport-Complies with IATA/ICAO Special Provisions A67
- Not restricted for surface transport-Classified as non-hazardous material as related to DOT-CFR Totle 49 parts 171-189
- Not restricted for water transport-Classified as non-hazardous material per IMDG Amendment 27
- Manufactured in accordance with ISO 9001, ISO 14001, ISO 45001 and ISO 50001
- Designed to be compliant with international standard IEC 60896-21/22

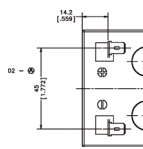
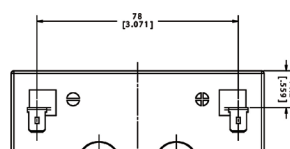
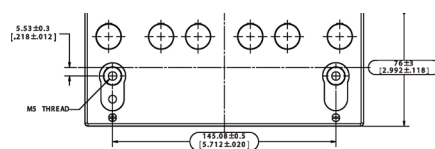
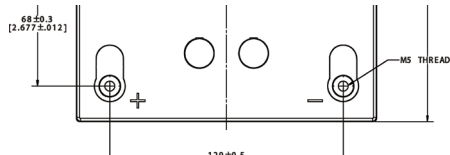
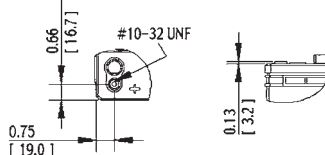
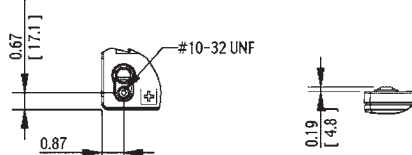
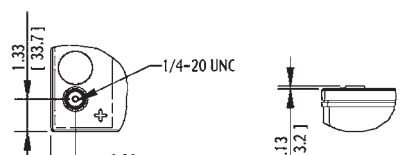
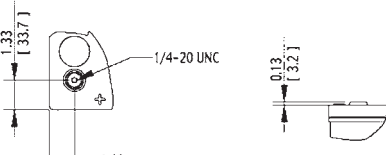
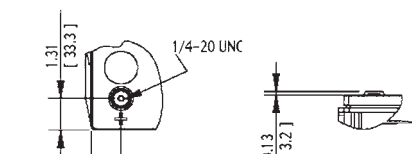
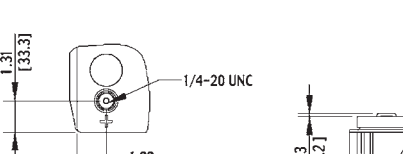
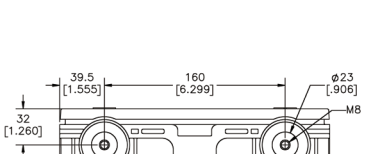
### Specifications

| Model           | V  | 15min<br>Watt/cell @ 1.67EPV | C20 (Ah)<br>1.75EPV, 25°C | C10 (Ah)<br>1.80EPV, 25°C | Dimensions/mm<br>(L*W*H*total Height) |     |     |     | Weight/ kg | Terminal Type (Bolt)  |
|-----------------|----|------------------------------|---------------------------|---------------------------|---------------------------------------|-----|-----|-----|------------|-----------------------|
| UPS 12-28 MRX   | 12 | 28                           | 7                         | 6.6                       | 151                                   | 65  | 94  | 100 | 2.3        | Faston Tab 250        |
| UPS 12-34 MRX   | 12 | 34                           | 9                         | 8.2                       | 151                                   | 65  | 94  | 100 | 2.5        | Faston Tab 250        |
| UPS 12-43 MRX   | 12 | 43                           | 12                        | 11.3                      | 151                                   | 98  | 94  | 100 | 3.6        | Faston Tab 250        |
| UPS 12-72 MRX   | 12 | 72                           | 18.8                      | 18.8                      | 181                                   | 76  | 163 | 166 | 6.0        | Inserted(M5)          |
| UPS 12-100S MRX | 12 | 100                          | 27.0                      | 26.6                      | 166                                   | 175 | 122 | 125 | 8.9        | Inserted(M5)          |
| UPS 12-100 MRX  | 12 | 100                          | 34                        | 30                        | 197                                   | 132 | 166 | 173 | 10.7       | Inserted(#10-32 UNF)  |
| UPS 12-150 MRX  | 12 | 150                          | 36                        | 33                        | 197                                   | 132 | 166 | 173 | 12.4       | Inserted(#10-32 UNF)  |
| UPS 12-220 MRX  | 12 | 220                          | 56                        | 51                        | 242                                   | 142 | 200 | 205 | 19.0       | Inserted(#10-32 UNF)  |
| UPS 12-320R MRX | 12 | 320                          | 84                        | 79                        | 273                                   | 173 | 201 | 204 | 27.0       | Inserted (1/4-20 UNC) |
| UPS 12-370R MRX | 12 | 370                          | 102                       | 92                        | 319                                   | 173 | 203 | 206 | 31.5       | Inserted (1/4-20 UNC) |
| UPS 12-400 MRX  | 12 | 400                          | 110                       | 100                       | 341                                   | 173 | 213 | 216 | 35.3       | Inserted (1/4-20 UNC) |
| UPS 12-475 MRX  | 12 | 475                          | 114                       | 106                       | 341                                   | 173 | 215 | 218 | 38.0       | Inserted (1/4-20 UNC) |
| UPS 12-490 MRX  | 12 | 490                          | 150                       | 137                       | 345                                   | 173 | 275 | 278 | 46.6       | Inserted (1/4-20 UNC) |
| UPS 12-550 MRX  | 12 | 550                          | 154                       | 141                       | 345                                   | 173 | 275 | 278 | 48.6       | Inserted (1/4-20 UNC) |
| UPS 12-630 MRX  | 12 | 630                          | 140                       | 132                       | 345                                   | 173 | 275 | 278 | 52.9       | Inserted (1/4-20 UNC) |
| UPS 12-700 MRX  | 12 | 700                          | 228                       | 211                       | 525                                   | 239 | 227 | 227 | 66.0       | Inserted(M8)          |
| UPS 12-720 MRX  | 12 | 720                          | 234                       | 217                       | 525                                   | 239 | 227 | 227 | 67.3       | Inserted(M8)          |
| UPS 12-800 MRX  | 12 | 800                          | 226                       | 210                       | 525                                   | 239 | 227 | 227 | 71.0       | Inserted(M8)          |
| UPS 12-830 MRX  | 12 | 830                          | 236                       | 218                       | 525                                   | 239 | 227 | 227 | 72.0       | Inserted(M8)          |

## Specifications

|                                                           |                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature Range with temperature compensation | Discharge: -40°F (-40°C) to +160°F (71°C)<br>Charge: -10°F (-23°C) to +140°F (60°C)                                                                                                                                                                                                                         |
| Nominal Operating Temperature Range                       | +74°F (23°C) to +80°F (27°C)                                                                                                                                                                                                                                                                                |
| Recommended Maximum Charging Current Limit                | C/5 amperes @ 20hr rate                                                                                                                                                                                                                                                                                     |
| Float Charging Voltage                                    | 13.65±0.15VDC per unit at 25°C (Recommendation: 13.65V per unit)                                                                                                                                                                                                                                            |
| Maximum AC Ripple (Charger)                               | 0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Max voltage allowed = 1.4% RMS (4% P-P), Max current allowed = C/20 A RMS                                                                                                                                                        |
| Self Discharge                                            | Battery can be stored up to 4 months at 77°F (25°C) before a freshening charge is required. Batteries stored at temperatures greater than 77°F (25°C) will require recharge sooner than batteries stored at lower temperatures. See C&D brochure 41-7272, Self-Discharge and Inventory Control for details. |
| Equalize charge and cycle service voltage                 | 14.40 to 14.80 VDC average per 12V unit @ 77°F (25°C)                                                                                                                                                                                                                                                       |
| Accessories (Optional)                                    | Inter unit connectors, racks and cabinet systems are available.                                                                                                                                                                                                                                             |

## Battery Termination

|                                                                                                                            |                                                                                                                                          |                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>UPS 12-28 MRX,<br/>UPS 12-34 MRX</p> |  <p>UPS 12-43 MRX</p>                                  |  <p>UPS 12-72 MRX</p>                                                       |
|  <p>UPS 12-100S MRX</p>                 |  <p>UPS12-100MRX, UPS12-150MRX</p>                   |                                                                                                                                                                 |
|  <p>UPS12-220MRX</p>                    |  <p>UPS12-320R MRX</p>                               |  <p>UPS12-370R MRX</p>                                                     |
|  <p>UPS12-400MRX, UPS12-475MRX</p>      |  <p>UPS12-490MRX, UPS12-550MRX,<br/>UPS12-630MRX</p> |  <p>UPS 12-700 MRX, UPS 12-720 MRX,<br/>UPS 12-800 MRX, UPS 12-830 MRX</p> |



# TECHNOLOGIES

## Contact us

### Headquarters

C&D Technologies, Inc.  
200 Precision Road  
Horsham, PA 19044 USA

### Europe

C&D Technologies (UK) Limited  
Unit 25, Romsey Industrial Estate, Greatbridge Road  
ROMSEY, Hampshire, SO51 0HR, UK  
Office: +44 (0) 1794 518 173  
E-mail: Gdailly@cdtrojan.com

### Middle East & Africa

C&D TECHNOLOGIES (UK) LIMITED  
LOB 15 – OFFICE 413  
PO BOX 263116  
JEBEL ALI FREE ZONE  
DUBAI – UNITED ARAB EMIRATES  
PH: +971 5045 494 79  
E-mail: phockings@cdtrojan.com

### C&D Tech Power Solutions (India) Private Limited

NEW NUMBER 39, OLD NUMBER 15, GROUND FLOOR, AGASTHIAR STREET,  
EAST TAMBARAM, CHENNAI 600059.  
Tel:(91) 98400 86199  
E-mail: ishantharaj@cdtrojan.com.cn

### C&D Technologies (Hong Kong) Ltd.

Tel: (852) 2119 9870  
Fax: (852) 2117 0342  
E-mail: Bhui@cdtrojan.com

### C&D Tech (Singapore) Pte Ltd.

Tel: (65) 6291 1031  
Fax: (65) 6291 0767  
E-mail: Bhui@cdtrojan.com

### C&D Trojan (Shanghai) Energy Technologies Co., Ltd.

Tel: 400-678-3721

### C&D Trojan (Shanghai) Power Technologies Co., Ltd.

No.55 Liandu Road,Spark Development Zone,Shanghai, China  
Tel: (86) 21 3711 1222

### C&D Jiangsu Technologies Co., Ltd.

Circular Economy Industrial Park  
Pizhou High-tech Industrial Development Zone,  
Jiangsu Province China 221300  
Tel: (86) 516 8687 9857

### Website

[www.cdtrojan.cn](http://www.cdtrojan.cn)

China Service Hotline: 400-678-3721

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