



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



# UPS12-150MRX

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

## FEATURES AND BENEFITS

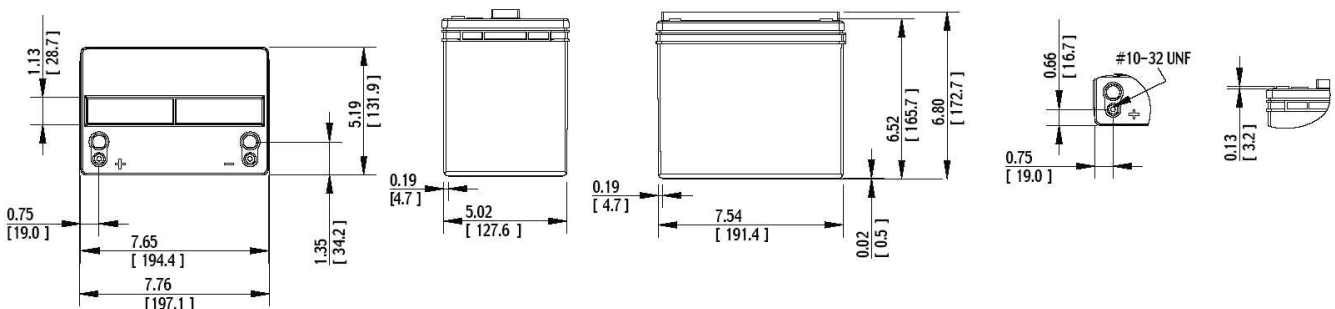
### APPLICATIONS

- 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

- 12 year design life @ 25°C
- Eurobat classification: Long life
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Patented Long Life Alloy having the lowest calcium levels in the industry - minimizing grid growth, reducing gassing, and extending battery life
- Patented 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 durable polypropylene case and cover compliant with UL 1778 and UL94-V2
- 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
- Can be operated in any orientation. Upright, side or end mounting recommended.
- 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 Title 49 parts 171-189
- Not restricted for water transport - Classified as non-hazardous material per IMDG Amendment 27.

## Specifications

Cells Per Unit	Voltage Per Unit	Weight	Watts/Cell @ 15min	1 Min Current to 1.75VPC	Short Circuit Current	Resistance
6	12.98V	12.4 Kg	150	269 Amps	1475 Amps	8.45 (mOhms)



\*All dimensions in inches and (millimeters). All dimensions are for reference only. Contact a C&D Representative for complete dimensional information.

## Specifications

<b>Operating Temperature Range with temperature compensation</b>	Discharge: -40° F (-40° C) to +160° F (71° C) Charge: -10° F (-23° C) to +140° F (60° C)
<b>Nominal Operating Temperature Range</b>	+74° F (23° C) to +80° F (27° C)
<b>Recommended Maximum Charging Current Limit</b>	C/5 amperes @ 20hr rate
<b>Float Charging Voltage</b>	13.65 ± 0.15 VDC average per 12V unit. (6.75 to 6.90 per 6V unit)
<b>Maximum AC Ripple (Charger)</b>	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
<b>Self Discharge</b>	Battery can be stored up to 6 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.
<b>Equalize charge and cycle service voltage</b>	14.40 to 14.80 VDC average per 12V unit @ 77° F (25° C) (7.20 to 7.40 VDC per 6V unit.)
<b>Terminal: Inserted</b>	Threaded copper alloy insert terminal to accept 10-32 UNF bolt for all models below UPS12-220MRX. 1/4-20 UNC bolt for all models above UPS12-280MRX
<b>Terminal Hardware Initial Torque: Inserted Terminal</b>	30 in.-lbs. (3.4 N-m) for all models below UPS12-220MRX. 110 in.-lbs. (12.4 N-m) for all models above UPS120-280MRX.

### Constant Power Discharge Table - Watts Per Cell @ 25°C (77°F)

#### Operating Time to End Point Voltage

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	204.6	156.5	124.0	76.7	46.2	25.5	18.0	14.1	11.6	9.9	8.7	7.8	7.0	6.4	5.3	3.2	2.7
1.80	226.1	172.7	137.0	82.0	47.7	26.3	18.6	14.6	12.0	10.3	9.0	8.0	7.3	6.6	5.5	3.3	2.8
1.78	231.0	176.3	140.0	83.0	47.9	26.4	18.7	14.6	12.1	10.3	9.1	8.1	7.3	6.7	5.6	3.3	2.8
1.75	236.0	179.8	143.0	84.0	48.1	26.5	18.7	14.7	12.2	10.4	9.1	8.2	7.4	6.7	5.6	3.4	2.8
1.73	240.9	182.6	145.0	85.0	48.3	26.6	18.8	14.8	12.2	10.5	9.2	8.2	7.4	6.7	5.6	3.4	2.8
1.70	245.9	185.4	147.0	86.0	48.5	26.7	18.9	14.9	12.2	10.5	9.2	8.2	7.4	6.8	5.6	3.4	2.8
1.67	249.2	189.2	150.0	86.5	48.7	26.8	18.9	14.9	12.3	10.5	9.2	8.2	7.5	6.8	5.7	3.4	2.8
1.65	250.8	192.2	152.0	87.0	48.9	26.9	19.0	15.0	12.3	10.6	9.3	8.3	7.5	6.8	5.7	3.4	2.8

### Constant Current Discharge Table - Amps @ 25°C (77°F)

#### Operating Time to End Point Voltage

End Voltage Per Cell	Min					Hour											
	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.94	79.8	68.0	54.3	34.1	20.2	10.9	7.6	5.9	4.8	4.1	3.6	3.2	2.8	2.6	2.2	1.4	1.2
1.90	103.4	79.3	62.7	38.4	23.0	12.4	8.7	6.7	5.5	4.7	4.1	3.6	3.3	3.0	2.5	1.6	1.4
1.85	118.6	90.9	71.8	42.6	25.2	13.5	9.4	7.3	5.9	5.0	4.4	3.9	3.5	3.2	2.7	1.7	1.5
1.83	122.7	94.2	74.4	43.7	25.8	13.8	9.6	7.4	6.0	5.1	4.5	4.0	3.6	3.2	2.7	1.7	1.5
1.80	128.4	98.5	77.8	45.3	26.4	14.2	9.8	7.6	6.2	5.2	4.6	4.0	3.6	3.3	2.8	1.8	1.5
1.78	131.2	100.8	79.0	45.9	26.5	14.2	9.9	7.6	6.2	5.3	4.6	4.1	3.7	3.3	2.8	1.8	1.5
1.75	134.1	102.7	80.0	46.7	26.8	14.3	9.9	7.6	6.2	5.3	4.6	4.1	3.7	3.4	2.8	1.8	1.5
1.70	137.4	105.4	82.0	47.6	27.1	14.5	10.0	7.7	6.3	5.3	4.6	4.1	3.7	3.4	2.9	1.8	1.5

Note: Batteries to be mounted with 0.5 in. (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change without notification.