



**HIGH
RATE
MAX^{XT}**



UPS12-130MRX

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

FEATURES AND BENEFITS

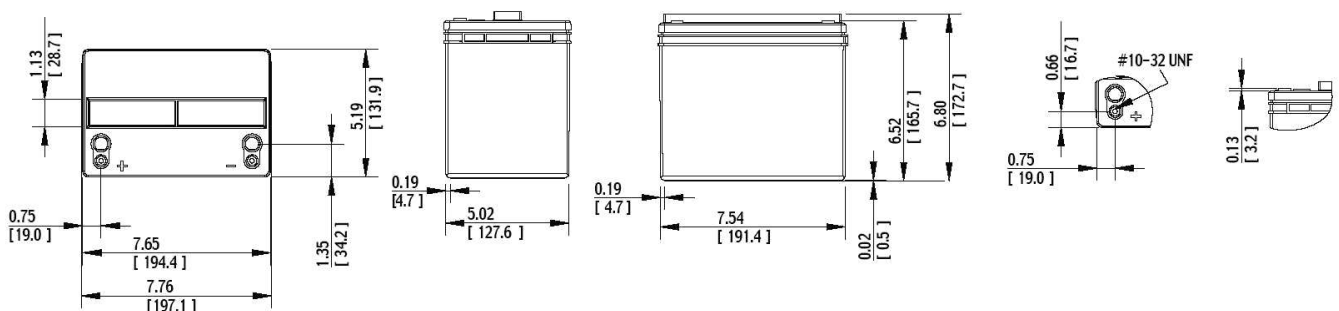
APPLICATIONS

- 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	11.5 Kg	130	216 Amps	1321 Amps	9.38 (mOhms)



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

Specifications

Operating Temperature Range with temperature compensation	Discharge: -40° F (-40° C) to +160° F (71° C) 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 ± 0.15 VDC average per 12V unit. (6.75 to 6.90 per 6V 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
Self Discharge	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.
Equalize charge and cycle service voltage	14.40 to 14.80 VDC average per 12V unit @ 77° F (25° C) (7.20 to 7.40 VDC per 6V unit.)
Terminal: Inserted	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
Terminal Hardware Initial Torque: Inserted Terminal	30 in.-lbs. (3.4 N-m) for all models below UPS12-220MRX. 110 in.-lbs. (12.4 N-m) for all models above UPS12-280MRX.

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	185.5	140.7	112.4	69.8	42.8	25.1	17.8	14.0	11.6	10.0	8.7	7.7	6.9	6.3	5.3	3.3	2.8
1.80	204.3	155.4	123.8	74.8	45.2	26.3	18.6	14.5	12.1	10.4	9.0	8.0	7.2	6.5	5.5	3.4	2.9
1.78	209.5	159.6	127.0	76.5	46.0	26.5	18.8	14.7	12.2	10.5	9.1	8.0	7.2	6.5	5.5	3.4	2.9
1.75	214.0	165.7	129.7	78.2	46.5	26.6	18.9	14.8	12.3	10.5	9.1	8.1	7.2	6.6	5.6	3.5	2.9
1.73	216.7	168.3	131.4	78.8	47.0	26.7	19.0	14.8	12.3	10.6	9.2	8.1	7.3	6.6	5.6	3.5	2.9
1.70	220.8	172.1	133.8	79.8	47.3	26.8	19.1	14.9	12.3	10.6	9.2	8.1	7.3	6.6	5.6	3.5	2.9
1.67	225.0	176.1	135.0	80.7	47.6	26.9	19.1	14.9	12.4	10.6	9.2	8.1	7.3	6.6	5.6	3.5	3.0
1.65	227.8	178.7	137.0	81.4	47.9	27.0	19.2	15.0	12.4	10.6	9.2	8.1	7.3	6.6	5.6	3.5	3.0

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	53.4	53.4	46.2	30.5	18.6	10.1	7.1	5.5	4.5	3.9	3.4	3.0	2.7	2.5	2.1	1.3	1.1
1.90	78.4	68.3	54.0	34.5	21.4	11.6	8.1	6.3	5.2	4.4	3.9	3.4	3.1	2.8	2.4	1.5	1.3
1.85	101.7	77.8	61.7	38.2	23.8	12.9	9.0	7.0	5.7	4.9	4.2	3.8	3.4	3.1	2.6	1.7	1.4
1.83	105.6	80.6	64.0	39.2	24.3	13.1	9.2	7.1	5.8	4.9	4.3	3.8	3.5	3.1	2.7	1.7	1.4
1.80	111.5	85.0	67.6	40.8	25.1	13.5	9.4	7.3	6.0	5.1	4.4	3.9	3.5	3.2	2.7	1.7	1.5
1.78	115.2	87.3	69.1	41.4	25.3	13.6	9.5	7.3	6.0	5.1	4.5	4.0	3.6	3.2	2.8	1.7	1.5
1.75	117.5	89.0	70.5	42.4	25.5	13.7	9.6	7.4	6.1	5.2	4.5	4.0	3.6	3.3	2.8	1.8	1.5
1.70	120.8	92.4	73.2	43.1	25.9	13.9	9.7	7.5	6.1	5.2	4.5	4.0	3.6	3.3	2.8	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.