C&D TECHNOLOGIES
Power Solutions

C&D® DYNASTY® UPS

UPS

HIGH RATE MAX XT

UPS12-100MRX

Valve Regulated Lead Acid Battery

Designed for UPS Standby Power Applications

APPLICATIONS

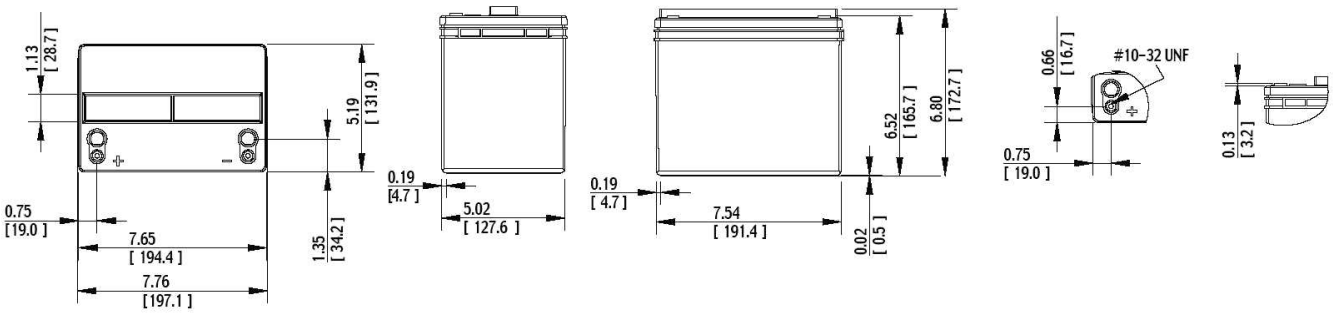
- Data Centers
- Network Operation Centers
- Industrial Process Control Facilities
- Internet Housing Sites
- Semiconductor Manufacturing
- Banks and Financial Markets
- Power Generation Plants
- Hospital and Testing Laboratories
- Emergency Response Center

FEATURES AND BENEFITS

- 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 parts171-189
- 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	10.7 Kg	100	171 Amps	1003 Amps	12.35 (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 belowUPS12-220MRX. 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 UPS120-280MRX.

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

Operating Time to End Point Voltage

End Voltage	Min					Hour											
Per Cell	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.85	142.5	105.3	86.4	57.0	36.9	22.2	15.9	12.6	10.5	9.1	8.0	7.2	6.5	5.9	5.0	3.2	2.8
1.80	157.1	117.1	95.2	61.3	39.0	22.9	16.5	13.0	10.9	9.4	8.3	7.4	6.7	6.1	5.2	3.3	2.8
1.78	162.8	122.0	97.7	62.3	39.5	23.1	16.5	13.1	10.9	9.4	8.3	7.4	6.7	6.1	5.2	3.3	2.8
1.75	165.8	126.4	99.5	63.9	40.0	23.1	16.6	13.2	11.0	9.5	8.4	7.5	6.8	6.2	5.3	3.4	2.9
1.73	168.3	128.8	101.0	64.5	40.3	23.2	16.7	13.2	11.0	9.5	8.4	7.5	6.8	6.2	5.3	3.4	2.9
1.70	172.2	131.0	103.3	65.4	40.5	23.3	16.7	13.3	11.1	9.5	8.4	7.5	6.8	6.2	5.3	3.4	2.9
1.67	176.1	133.3	105.7	66.3	40.8	23.4	16.8	13.3	11.1	9.6	8.4	7.5	6.8	6.2	5.3	3.4	2.9
1.65	178.8	135.8	107.3	66.9	41.0	23.4	16.8	13.3	11.1	9.6	8.5	7.6	6.8	6.2	5.3	3.4	2.9

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

Operating Time to End Point Voltage

End Voltage	Min					Hour											
Per Cell	5	10	15	30	60	2	3	4	5	6	7	8	9	10	12	20	24
1.94	53.0	44.7	36.5	25.3	16.0	9.1	6.5	5.2	4.3	3.7	3.3	2.9	2.7	2.5	2.1	1.4	1.2
1.90	68.2	52.4	42.2	28.4	18.2	10.5	7.5	5.9	4.9	4.2	3.7	3.3	3.0	2.7	2.3	1.5	1.3
1.85	80.0	61.1	48.5	31.4	20.1	11.4	8.2	6.4	5.4	4.6	4.0	3.6	3.2	2.9	2.5	1.6	1.4
1.83	83.4	63.7	50.5	32.2	20.5	11.6	8.3	6.5	5.5	4.7	4.1	3.6	3.3	3.0	2.6	1.6	1.4
1.80	88.6	68.0	53.7	33.6	21.0	11.9	8.5	6.7	5.6	4.8	4.2	3.7	3.4	3.1	2.6	1.7	1.4
1.78	90.8	69.7	55.0	34.1	21.2	12.0	8.6	6.7	5.6	4.8	4.2	3.7	3.4	3.1	2.6	1.7	1.4
1.75	93.3	71.3	56.3	34.9	21.5	12.1	8.6	6.8	5.7	4.9	4.3	3.8	3.4	3.1	2.6	1.7	1.4
1.70	96.4	73.5	58.0	35.4	21.6	12.2	8.7	6.8	5.7	4.9	4.3	3.8	3.4	3.1	2.7	1.7	1.4

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

C&D TECHNOLOGIES

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