



**HIGH
RATE
MAX^{XT}**



UPS12-600MRX

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

FEATURES AND BENEFITS

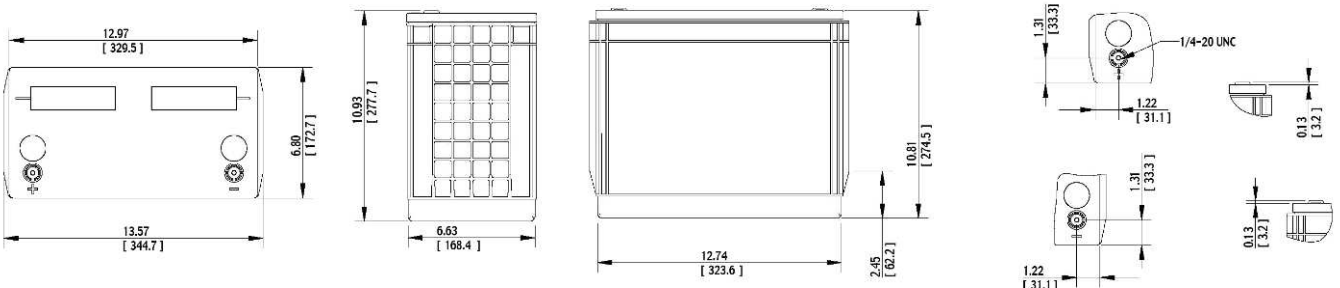
APPLICATIONS

- 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

- 10 year design life @ 25°C
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- 3 Year Warranty (refer Dynasty warranty card, 41-9026)
- 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 polypropylene case and cover compliant with UL 1778
- 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	49.4 Kg	600	828 Amps	3640 Amps	3.45 (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 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	698.8	568.5	463.7	305.3	195.5	112.4	78.0	60.2	49.2	41.7	36.3	32.2	29.0	26.3	22.3	14.1	12.0
1.80	790.5	637.7	518.8	329.9	209.0	115.6	80.5	62.2	51.0	43.3	37.7	33.5	30.1	27.4	23.3	14.7	12.5
1.78	819.0	658.5	534.1	336.2	210.5	116.7	81.1	62.7	51.3	43.6	38.0	33.7	30.3	27.6	23.4	14.8	12.6
1.75	867.7	681.6	550.8	344.6	212.0	118.2	82.1	63.4	51.9	44.0	38.3	34.0	30.6	27.8	23.6	14.9	12.7
1.73	890.5	700.8	560.2	348.1	213.5	118.6	82.4	63.6	52.0	44.2	38.5	34.1	30.7	27.9	23.7	15.0	12.7
1.70	927.7	724.9	583.2	355.1	215.0	119.2	82.8	63.9	52.3	44.4	38.6	34.3	30.8	28.0	23.8	15.0	12.7
1.67	968.8	745.1	600.8	360.8	216.5	119.8	83.2	64.2	52.5	44.6	38.8	34.4	30.9	28.1	23.9	15.1	12.8
1.65	998.6	755.6	608.2	364.7	218.0	120.2	83.4	64.4	52.7	44.7	38.9	34.5	31.0	28.2	23.9	15.1	12.8

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	207.9	191.1	172.0	125.9	78.1	45.8	32.3	25.2	20.8	17.8	15.3	13.5	12.0	10.9	9.1	5.6	4.7
1.90	293.6	250.2	214.0	148.8	89.3	51.0	36.0	28.1	23.1	19.9	17.2	15.1	13.5	12.3	10.3	6.4	5.4
1.85	360.6	304.3	253.0	166.0	98.0	55.1	38.8	30.3	25.1	21.6	18.7	16.5	14.7	13.3	11.2	6.9	5.8
1.83	390.3	326.5	268.0	172.0	101.0	56.3	39.6	30.9	25.6	22.0	19.0	16.7	15.0	13.6	11.4	7.1	5.9
1.80	435.7	351.4	290.0	179.0	103.8	58.0	40.7	31.9	26.3	22.4	19.4	17.1	15.3	13.9	11.7	7.2	6.1
1.78	457.6	361.0	296.0	182.0	105.4	58.5	41.1	32.1	26.5	22.5	19.5	17.2	15.4	14.0	11.8	7.3	6.1
1.75	484.8	370.6	302.0	185.0	106.4	59.0	41.7	32.5	26.7	22.8	19.7	17.4	15.6	14.1	11.9	7.4	6.2
1.70	524.3	389.8	314.0	189.0	108.4	59.6	42.0	32.7	27.1	23.0	19.9	17.6	15.7	14.2	12.0	7.4	6.2

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