



**HIGH
RATE
MAX^{XT}**



UPS12-550MRX

Valve Regulated Lead Acid Battery

Designed for UPS Standby Power Applications

FEATURES AND BENEFITS

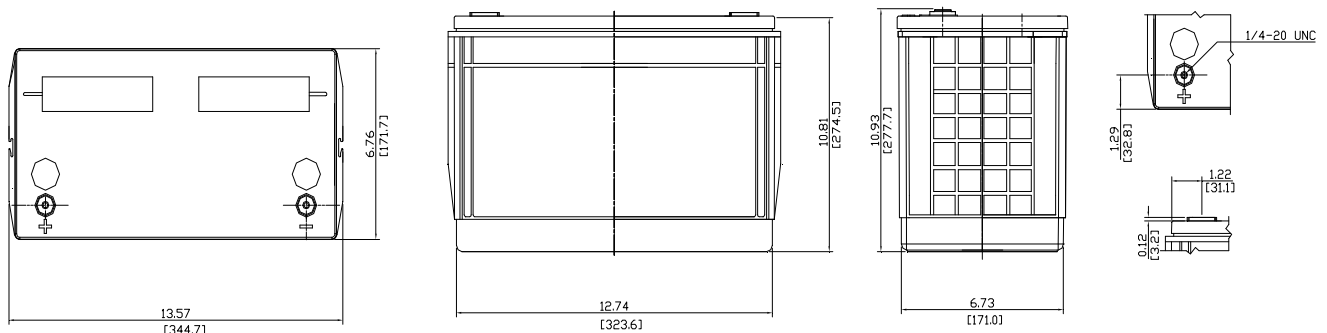
APPLICATIONS

- 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.
- 3 Year Warranty (refer Dynasty warranty card, 41-9027)
- 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 UL94V-2
- 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 upright, side or end mounting orientation.
- 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	IEC Short Circuit Current	IEC Resistance
6	12V	48.6 Kg	550	821 Amps	3609 Amps	3.48 (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
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)
Terminal	Threaded copper alloy insert terminal to accept 1/4-20 UNC bolt
Terminal Hardware Initial Torque	110 in.-lbs. (12.4 N-m)

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

Operating Time to End Point Voltage

EPV	5 min	10 min	15 min	20 min	25 min	30 min	45 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	583.7	493.2	408.3	350.6	311.5	282.8	224.4	190.4	135.6	106.6	76.0	59.7	49.5	33.4	27.2	23.1	14.5
1.80	709.7	579.3	467.7	393.2	343.7	307.9	239.8	200.8	142.3	111.4	79.0	61.9	51.2	34.6	28.4	24.0	15.0
1.75	795.0	635.6	508.7	422.0	365.0	324.2	248.9	206.3	145.9	114.0	80.6	63.0	52.1	35.2	28.7	24.2	15.2
1.70	854.9	675.4	534.1	439.4	377.5	333.6	253.4	208.5	147.2	115.0	81.2	63.5	52.4	35.3	28.8	24.4	15.3
1.67	896.9	704.1	550.1	453.9	391.0	346.2	258.2	209.7	148.0	115.6	81.6	63.7	52.6	35.4	28.8	24.4	15.3
1.65	927.7	715.2	561.1	461.5	396.5	350.3	259.8	210.2	148.5	116.0	81.8	63.9	52.7	35.5	28.9	24.4	15.3

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

Operating Time to End Point Voltage

EPV	5 min	10 min	15 min	30 min	60 min	90 min	2 hr	3 hr	4 hr	5 hr	6 hr	7 hr	8 hr	10 hr	12 hr	20 hr	24 hr
1.90	284.9	246.3	206.9	145.3	88.4	64.5	51.7	36.4	28.5	23.6	20.0	17.3	15.4	12.5	10.6	6.7	5.6
1.85	350.2	294.6	246.6	162.4	97.3	71.2	57.0	39.7	30.8	25.2	21.4	18.7	16.6	13.6	11.6	7.3	6.2
1.80	423.8	342.0	279.0	176.5	103.2	75.1	59.9	41.6	32.2	26.3	22.4	19.5	17.3	14.1	12.0	7.6	6.4
1.75	467.3	363.2	299.0	182.9	106.3	77.1	61.4	42.6	32.8	26.8	22.8	19.8	17.6	14.4	12.2	7.7	6.5

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