C&D TECHNOLOGIES
Power Solutions

C&D® DYNASTY® UPS

12-1009

RETURN RECYCLE LEAD

UPS12-475MRLP

HIGH RATE MAX

The Low Profile replacement for 475 watt per cell UPS Batteries

Valve Regulated Lead Acid (VRLA) Battery
Designed for UPS Standby Power Applications

APPLICATIONS

- **Data Centers**
- **Network Operations Centers**
- **Internet Hosting Sites**
- **Banks & Financial Markets**
- **Manufacturing Facilities**
- **Emergency 911 Response Centers**
- **Computer Rooms**
- **Industrial Process Controls**

FEATURES & BENEFITS

REPLACEMENT FOR UPS12-475FR
- Shorter case provides more head room for easier maintenance
- Uses same battery-to-battery connectors
- Lighter weight

HIGH RELIABILITY
- Patented Long-Life Alloy having the lowest calcium levels in the industry – minimizing grid growth, reducing gassing and extending battery life
- Proprietary Fixed Orifice Plate Pasting technology applying active material on both side of the grid for consistent cell-to-cell performance, higher capacity and longer life
- Thermally welded case-to-cover bond to insure a leak-proof seal
- UL recognized component
- Complies with UL 1778, UL924, UL1989 and UL94 V-2

REDUCED MAINTENANCE
- Multi-cell design for ease of installation and maintenance
- Threaded copper alloy terminal inserts eliminate connection re-torque requirements

SAFE OPERATION
- Absorbent Glass Mat (AGM) technology for efficient gas recombination (over 99%) and freedom from electrolyte maintenance
- Can be used in any position – upright, side or end mounting recommended
- Patented UL Recognized Flame-arresting one-way pressure relief vents for safety and long life
- Flame Retardant polypropylene case and cover compliant with UL 1778

EASILY TRANSPORTED
- Not restricted for surface transport – classified as non-hazardous material, complies with DOT-CFR Title 49 parts 171-189
- Not restricted for water transport – classified as non-hazardous material, complies with IMDG Exception 238
- Not restricted for air transport – classified as non-hazardous material, complies with IATA/ICAO Special Provision A67

WARRANTY
- 3 years full warranty

Capacity Ratings

475 Watts per cell	15 minute rate to 1.67 VPC at 77°F (25°F)
112 AH	20 hour rate to 1.75 VPC at 77°F (25°F)
103.8 AH - IEC Rating	10 hour rate to 1.80 VPC at 20°C (68°F)

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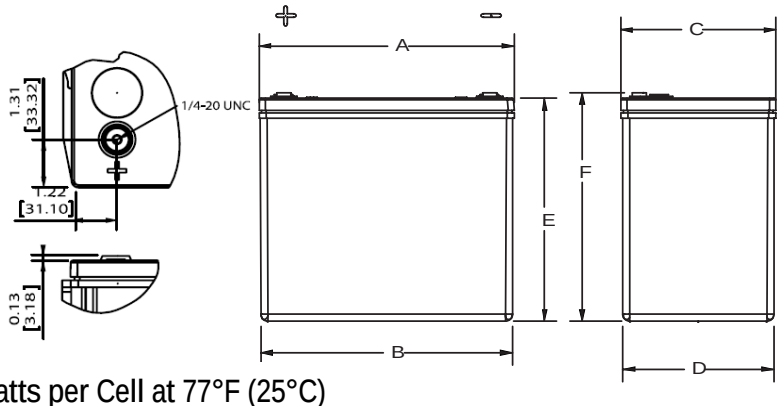
SPECIFICATIONS

Cells, Voltage per Unit	6 cells, 12 volts
Maximum Discharge Current	800 Amperes
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 at 20-hr rate
Float Charging Voltage	13.5 to 13.8 VDC per unit average at 77°F (25°C)
Equalize charge and cycle service voltage	14.40 to 14.80 VDC per unit average at 77°F (25°C)
Maximum AC ripple	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results.
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.
Terminal: inserted	Threaded copper alloy insert terminal to accept 1/4-20 UNC bolt
Terminal Hardware Torque	110 in.-lbs. (12.4 N-m)
Hardware Kit P/N 30035672	2 ea. ¼-20 x ¾" Hex Screws, 2 ea. Lock Washers and 2 ea. Flat Washers

DIMENSIONS & WEIGHT

	A	B	C	D	E	F
inches	13.42	12.75	6.80	6.54	8.40	8.52
mm	340.9	323.7	172.7	166.0	213.2	216.4

Unit Weight	83 pounds (38 kg)



CONSTANT POWER DISCHARGE RATINGS - Watts per Cell at 77°F (25°C)

	Reserve Time (minutes)									
End Volts/ Cell	**5**	**10**	**15**	**20**	**30**	**40**	**45**	**50**	**60**	**90**
1.75	**703**	**540**	**436**	**365**	**276**	**223**	**203**	**188**	**162**	**116**
1.70	**754**	**565**	**452**	**376**	**282**	**227**	**207**	**191**	**165**	**117**
1.67	**780**	**590**	**475**	**388**	**287**	**231**	**210**	**192**	**166**	**118**
1.65	**800**	**606**	**481**	**389**	**288**	**232**	**211**	**193**	**168**	**119**
1.60	**840**	**631**	**488**	**397**	**292**	**233**	**212**	**195**	**169**	**120**

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