

12-1024



# HIGH RATE MAX

## UPS12-490MRLP

The Low Profile replacement for 475 & 490 watts per cell UPS Batteries

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



### FEATURES & BENEFITS

#### APPLICATIONS

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

#### REPLACEMENT FOR UPS12-475FR AND UPS12-490MR

- Shorter case provides more head room for easier maintenance
- Fits on the same tray
- 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

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

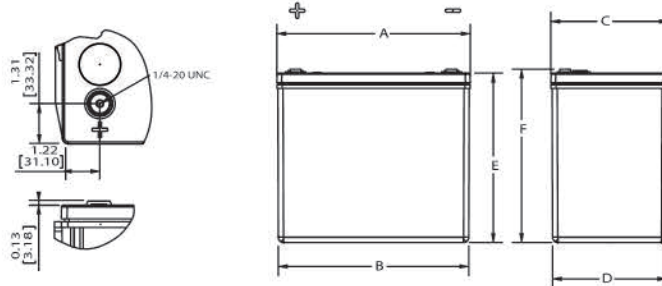
**SPECIFICATIONS**

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. 1/4-20 x 3/4" 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)**

End Volts/Cell	Reserve Time (minutes)									
	5	10	15	20	30	40	45	50	60	90
1.75	671	541	445	375	282	224	203	186	158	109
1.70	748	584	471	392	291	231	209	191	163	113
1.67	788	608	488	403	297	234	212	193	164	113
1.65	817	627	500	412	303	238	214	195	166	114
1.60	859	648	513	421	307	240	216	197	167	114

You may access the product ratings by logging onto the free **C&D Battery Sizing Program** at [www.cdstandbypower.net](http://www.cdstandbypower.net).

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