



UPS12-475

VALVE REGULATED
LEAD ACID BATTERY
FOR UPS STANDBY
POWER APPLICATIONS
12V 134 AH @ 20 HR RATE,
12V 475 WATTS/CELL
@ 15 MIN. RATE

FEATURES

- 10 Year design life @ 25°C (77°F)
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Patented flame-arresting one-way pressure-relief valve providing vacuum and controlled backpressure for long life recombinant operation.
- Designed to comply with ANSI and Eurobat battery standards.
- Specifically designed for optimum performance in UPS applications.
- Proprietary computer modeled radial grid matrix using multiple conductors for providing the lowest internal resistance and highest current carrying efficiency.

- Proprietary Fixed Orifice Pasting technology applying active material on both sides of the grid for consistant cell-to-cell performance, highest paste packing efficiency and uniform grid protection.
- Lowest calcium levels among battery manufacturers minimizing grid growth and extending battery life
- · UL-recognized component.
- Thermally welded case-to-cover bond to eliminate leakage.
- Can be mounted in any orientation. Upright, side or end mounting recommended.
- Not restricted for air transport Complies with IATA/ICAO Special Provision A67.
- Not restricted for surface transport –
 Classified as non-hazardous material as
 related to DOT-CFR Title 49 parts 171-189.
- Flame retardant polypropylene case and cover compliant with UL 1778 (optional).

12 Volts - 475 Watts Per Cell For 15 Minutes to 1.67 Volts per Cell

Constant Power Discharge Ratings – Watts Per Cell @ 77°F (25°C)

Operating Time to End Point Voltage (in minutes)

	End Point Volts/Cell	Operating filled to the Foliate Voltage (Infilliates)													
		5	10	15	20	30	40	45	50	60	90				
	1.67	750.0	577.0	475.0	393.0	302.0	248.0	227.0	210.0	182.0	129.0				

C&D Technologies, Inc. DYNASTY Division

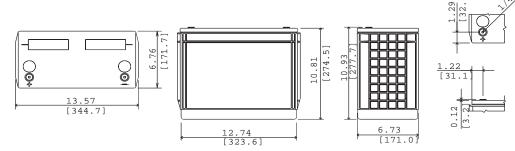
900 East Keefe Avenue Milwaukee, WI 53212 Phone: 800-396-2789 Fax: 414-961-6506 DYNASTY

DIVISION

EPICHNOLOGIES, INC.

UPS12-475





UPS12-475 – Specifications

*All dimensions in inches and (millimeters). All dimensions are for reference only. Contact a C&D Representative for complete dimensional information.

Cells Per Unit	Voltage Per Unit	Weight		Electrolyte	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60 Hz (w)				
6	12.84	12.84 100 45		Absorbed H_2SO_4 SG = 1.300	800 Amps	5000 Amps @ 0.1 sec.	0.0023 Ohms				
Capacity			475 watts per cell at the 15 minute rate to 1.67 volts per cell at 77°F (25°C). 134 Ah @ 20 hr. rate to 1.75 volts per cell @ 77°F (25°C) 122 Ah @ 10 hr rate to 1.80 volts per cell @ 20°C (68°F)								
Operating Temp	perature Range		Discharge ; -40° F (-40° C) to +160° F (71° C), Charge ; -10° F(-23° C) to +140° F (60°) (with temperature compensation)								
Nominal Operation	ting Temperature	:	+74°F (23°C) to +80°F (27°C)								
Float Charging	Voltage		13.5 to 13.8 VDC/unit Average at 77°F (25°C).								
Recommended Current Limit	Maximum Charg	jing	C/5 amperes (27 amperes @ 100% depth of discharge)								
Equalization an Charging Voltage	d Cycle Service ge		14.4 to 14.8 VDC/unit Average at 77°F (25°C).								
Maximum AC R	ipple (Charger)		0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum voltage allowed = 1.4% RMS (4% P-P) Maximum current allowed = 6.7 amperes RMS (C/20)								
Self Discharge			Dynasty UPS batteries may be stored for up to 6 months at 77°F (25°C) and then a freshening charge is required. For higher temperatures the time interval will be shorter.								
Accessories			Inter unit connectors, racks and cabinet systems are available.								
Terminal			Threaded brass inserts to accept 0.25" (6mm) bolt.								
Terminal Hardy	vare Torque		110 inlbs. (12.4 N-m)								

Constant Power Discharge Ratings — Watts Per Cell @ 77°F (25°C) Operating Time to End Point Voltage (in minutes)

End Doint	operating time to and remarks (in initiation)													
End Point Volts/Cell	5	10	15	20	30	40	45	50	60	90				
1.75	685.0	515.0	437.3	366.3	283.4	236.1	217.4	201.7	172.8	122.8				
1.70	725.0	542.9	451.5	379.2	293.2	221.6	221.6	205.5	177.8	125.0				
1.67	750.0	577.0	475.0	393.0	302.0	227.0	227.0	210.0	182.0	129.0				
1.65	770.1	588.6	481.4	401.9	311.2	233.1	233.1	214.9	185.2	131.0				
1.60	785.2	606.1	488.4	410.4	315.9	238.0	238.0	220.1	188.0	135.5				

Constant Current Discharge Ratings – Amperes @ 77°F (25°C) Operating Time to End Point Voltage (in hours)

End Point Volts/Cell	.083	.25	.50	.75	1	2	3	5	8	10	12	20	24	72	100
1.90	230	170	116	90	72.5	41.5	30.7	20.2	13.4	11.0	9.4	6.00	5.08	1.82	1.32
1.85	260	185	128	99	79.0	44.0	32.5	21.8	14.5	11.9	10.1	6.39	5.40	1.92	1.40
1.80	310	205	136	103	82.5	47.3	34.7	22.7	15.2	12.4	10.6	6.60	5.58	1.97	1.43
1.75	371	228	146	111	88.0	49.0	36.0	23.6	15.8	12.8	10.8	6.74	5.68	2.01	1.46

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