



UPS12-170

VALVE REGULATED LEAD ACID BATTERY FOR UPS STANDBY **POWER APPLICATIONS** 12V 50 AH @ 20 HR RATE, 12V 170 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
- UL-recognized component.
- Thermally welded case-to-cover bond to eliminate
- 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 - 170 Watts Per Cell For 15 Minutes to 1.67 Volts per Cell

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

End Point

Operating Time to End Point Voltage (in minutes)

Volts/Cell 10 15 20 60 90 5 30 40 45 50 1.67 270 206 170 141 106 80 74 65 87 47

C&D Technologies, Inc. **DYNASTY** Division

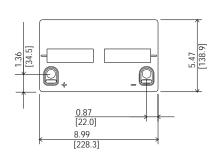
900 East Keefe Avenue Milwaukee, WI 53212 Phone: 800-396-2789

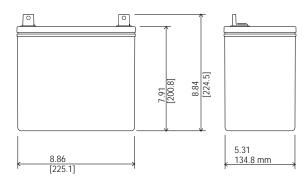
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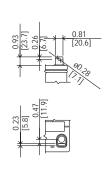


UPS12-170









UPS12-170 - Specifications

Accessories

Terminal Hardware Initial Torque

Terminal Hardware Annual Retorque

Terminal

*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	We	ight	Electrolyte	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60 Hz (w)				
6	12.84	40 lbs. 18 kg		Absorbed H_2SO_4 SG = 1.300	600 Amps	2500 Amps @ 0.1 sec.	0.0060 Ohms				
Capacity			170 watts per cell at the 15 minute rate to 1.67 volts per cell at 77° F (25° C). 50 Ah @ 20 hr. rate to 1.75 volts per cell @ 77° F (25° C) 44.8 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° C) (with temperature compensation)								
Nominal Opera Range	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	ing	C/5 amperes (10.0 amperes @ 100% depth of discharge) @ 20 hour rate								
Equalization an Charging Voltage	d Cycle Service ge		14.4 to 14.8 VDC/unit Average at 77° F (25° C).								
Maximum AC R	Ripple (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 = 2.5 amperes RMS (C/20)								
Self Discharge			Dynasty	Dynasty UPS batteries may be stored for up to 6 months at 77° F (25° C) and then							

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

40 in.-lbs. (4.5 N-m).

32 in.-lbs. (3.48 N-m).

Inter unit connectors, racks and cabinet systems are available. "L" terminal with 0.28" clearance hole to accept 0.25" (6mm) bolt.

a freshening charge is required. For higher temperatures the time interval will be

End Point Volts/Cell	5	10	15	20	30	40	45	50	60	90
1.75	240	189	157	134	101	83	76	71	62	45
1.70	255	198	161	138	104	85	78	73	64	47
1.67	270	206	170	141	106	87	80	74	65	47
1.65	281	213	172	145	108	88	81	75	66	48
1.60	290	220	176	147	110	90	83	77	68	49

Constant Current Discharge Ratings - Amperes @ 77°F (25°C)

Operating Time to End Point Voltage (in hours)

E 15 1 1															
End Point Volts/Cell	.083	.25	.50	.75	1	2	3	5	8	10	12	20	24	72	100
1.90	75	56	42	32	26.2	16.5	12.2	7.83	5.20	4.27	3.60	2.23	1.88	0.66	0.49
1.85	95	75	47	35	28.0	17.5	12.7	8.05	5.35	4.43	3.75	2.33	1.97	0.69	0.50
1.80	115	72	50	37	30.0	18.1	13.0	8.23	5.53	4.57	3.88	2.45	2.06	0.71	0.51
1.75	130	82	52	39	31.5	18.5	13.2	8.45	5.69	4.69	3.98	2.50	2.10	0.72	0.52