



### **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**

- Flame-arresting one-way pressure-relief vent for safety and long life.
- Thermally welded case-to-cover bond to eliminate leakage.
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Computer-generated grid design optimized for high power density.
- UL-recognized component.
- Multicell design for economy of installation and maintenance.
- Can be used 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.
- Not restricted for water transport classified as non-hazardous material per IMDG Amendment 27.
- Computer designed lead, low calcium alloy grid for minimal gassing and ease of recycling.
- Case and cover available in both standard and flame retardant polypropylene.
- Flame retardant polypropylene case and cover compliant with UL 1778 (optional).

12 Volts – Constant Pow										
End Point Volts/Cell	5	10	15	20	30	40	45	50	60	90
1.67	280	210	170	140	107	88.1	81.5	75.2	65.5	47.3

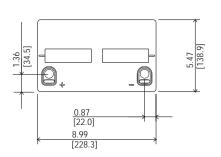
# C&D Technologies, Inc. DYNASTY Division

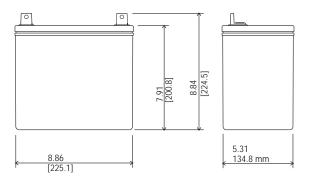
900 East Keefe Avenue Milwaukee, WI 53212 Phone: 800-396-2789 Fax: 414-961-6506

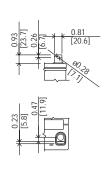


## **UPS12-170**









### **UPS12-170 – Specifications**

Self Discharge

Accessories

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			Electrolyte	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60 Hz (Ω)				
6	12.84	12.84 40 II 18 I		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	erature 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 Operat Range	ing Temperature	<b>:</b>	+74°F (23°C) to +80°F (27°C)								
Float Charging	Voltage		13.5 to	13.8 VDC/unit Ave	rage 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 and Charging Voltage			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 = 2.5 amperes RMS (C/20)								

Terminal Hardware Initial Torque 40 in.-lbs. (4.5 N-m).

Terminal Hardware Annual Retorque 32 in.-lbs. (3.48 N-m).

shorter.

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

Operating Time to End Point Voltage (in minutes)

End Point Volts/Cell	operating rime to End remarks (in rimates)														
	5	10	15	20	30	40	45	50	60	90					
1.75	250	190	155	130	100	83	77	71	62	45					
1.70	272	204	165	136	105	87	80	74	65	47					
1.67	280	210	170	140	107	88	82	75	66	47					
1.65	284	213	173	142	108	89	82	76	66	48					
1.60	290	215	174	143	109	89	83	76	67	48					

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

Operating Time to End Point Voltage (in hours)

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

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

End Point Volts/Cell	.083	.25	.50	.75	1	2	3	5	8	10	12	20	24	72	100
1.90	73.0	53.6	38.0	31.7	25.2	16.0	11.8	7.80	5.15	4.25	3.58	2.17	1.83	0.63	0.46
1.85	107	69.2	45.6	37.3	29.0	17.5	12.7	8.26	5.45	4.43	3.75	2.33	1.96	0.68	0.50
1.80	120	75.6	49.2	39.8	30.4	18.2	13.0	8.48	5.60	4.57	3.88	2.45	2.06	0.71	0.51
1.75	134	81.6	52.6	42.3	32.0	18.6	13.3	8.66	5.75	4.69	3.98	2.50	2.10	0.72	0.52

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