



UPS12-170

VALVE REGULATED LEAD ACID BATTERY FOR UPS STANDBY POWER APPLICATIONS 12V 50.0 AH @ 20 HR RATE, 12V 170 WATTS/ CELL @ 15 MIN RATE

FEATURES

- Robust plate for extended cycle life.
- 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 – 170 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 time to End Point Voltage (in minutes)											
	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		

SPECIALTY BATTERY DIVISION

900 East Keefe Avenue P.O. Box 591 Milwaukee, WI 53201

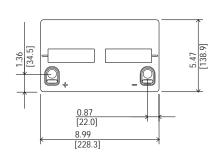
Milwaukee, WI 53201 Phone: 800-397-2789 Fax: 414-961-6506 CONTRELS DYNASTY.

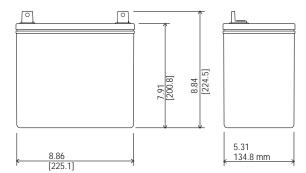
BATTERIES

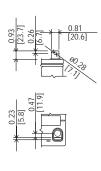
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UPS12-170 – Specifications

Cells	Voltage		Electrolyte	Maximum	Short Circuit	Ohms Imped.	
Per Unit	Per Unit Weight			Discharge Current	Currrent	60 Hz (Ω)	
6	12.84	39.6 lbs. 18.0 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 Temperature Range	Discharge ; -40°F (-40°C) to +160°F (71°C), Charge ; -4°F (-20°C) to +160°F (71°C)						
Recommended Operating Temperature Range	+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 Maximum Charging Current Limit	C/5 amperes (10.0 amperes @ 100% depth of discharge) @ 20 hour rate						
Equalization and Cycle Service Charging Voltage	14.4 to 14.8 VDC/unit Average at 77°F (25°C).						
Maximum AC Ripple (Charger)	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum AC ripple voltage allowed = (4% P-P) Maximum AC ripple current allowed = 2.5 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	"L" terminal with 0.28" clearance hole to accept 0.25" (6mm) bolt.						
Terminal Hardware Initial Torque	40 inlbs. (4.5 n-m).						
Terminal Hardware Annual Retorque	32 inlbs. (3.48 n-m).						

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

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End Point Volts/Cell	5	10	15	20	30	40	45	50	60	90		
1.75	250	190	155	130	100	82.5	76.7	70.8	62.0	45.3		
1.70	272	204	165	136	105	86.6	80.0	74.4	65.0	46.7		
1.67	280	210	170	140	107	88.1	81.7	75.2	65.5	47.3		
1.65	284	213	173	142	108	88.5	82.1	75.8	66.0	47.7		
1.60	290	215	174	143	109	88.9	82.6	76.2	66.5	48.1		

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

						Operating	ng 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
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
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
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
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

Note: Batteries to be mounted with 0.5 in. (1.25 cm) spacing minimum and free air ventilation. Specifications subject to change.