



# **UPS12-140**

VALVE REGULATED LEAD ACID BATTERY FOR UPS STANDBY POWER APPLICATIONS

### **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 mounted in any orientation.

- 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.
- 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 – 140 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	5	10	15	20	30	40	45	50	60	90
1.67	282	183	140	115	86	69	63	58	50	39

#### SPECIALTY BATTERY DIVISION

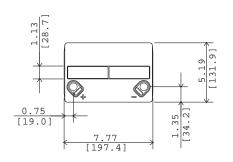
900 East Keefe Avenue P.O. Box 591 Milwaukee, WI 53201 Phone: 800-396-2789

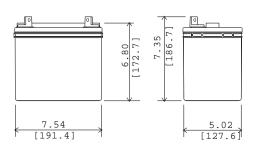
Phone: 800-396-278 Fax: 414-961-6506

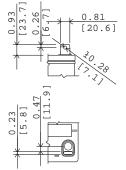


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# **UPS12-140 – Specifications**

AC Ripple (Charger)

Terminal Hardware Initial Torque

Self Discharge

Accessories

Terminal

Cells Per Unit	Voltage Per Unit	Wei	ght	Electrolyte	Maximum Discharge Current	Short Circuit Currrent	Ohms Imped. 60 Hz (Ω)			
6	12.01		6 lbs. Absorbed $H_2SO_4$ .0 kg $SG = 1.300$		500 Amps	2500 Amps @ 0.1 sec.	0.0060 Ohms			
Capacity			140 watts per cell at the 15 minute rate to 1.67 volts per cell at 77°F (25°C). 32 Ah @ 20 hr. rate to 1.75 volts per cell @ 77°F (25°C) 29 Ah @ 10 hr rate to 1.80 volts per cell @ 25°C (68°F)							
Operating Temp	erature Range		<b>Discharge</b> ; -40°F (-40°C) to +140°F (60°C), <b>Charge</b> ; -4°F (-20°C) to +122°F (50°C)							
Nominal Operat	ting Temperature	9	+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	ging	C/5 amperes (6.5 amperes @ 100% depth of discharge)							
Equalization an	d Cycle Service ge		14.4 to 14.8 VDC/unit Average at 77°F (25°C).							

0.5% RMS or 1.5% P-P of float charge voltage recommended for best results. Maximum voltage allowed = 4% P-P Maximum current allowed = 1.3 amperes (C/20)

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

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

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

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

End Point		Run Time to 1.75 voits per Cell (in minutes)									
Volts/Cell	5	10	15	20	30	40	45	50	60	90	
1.75	265	177	137	112	84	68	62	57	49	39	
1.70	277	182	139	114	85	68	62	57	50	39	
1.67	282	183	140	115	86	69	63	58	50	39	
1.65	285	184	141	115	86	69	63	58	50	39	
1.60	289	186	142	116	86	69	63	58	50	39	

Note: Batteries to be mounted with 0.5 in. spacing minimum and free air ventilation.

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

End Point	Operating Time to End Point Voltage (in hours)									
Volts/Cell	1	2	3	5	8	10	12	24		
1.90	18.1	11.0	8.03	5.20	3.39	2.73	2.32	1.19		
1.85	20.5	11.8	8.40	5.40	3.50	3.16	2.83	1.24		
1.80	22.3	12.4	8.80	5.50	3.65	3.30	2.95	1.29		
1.75	23.6	13.0	9.10	5.70	3.75	3.39	3.03	1.33		

Note: Specifications subject to change.