

HIGH RATE SERIES



UPS12-140

**VALVE REGULATED
LEAD ACID BATTERY
FOR UPS STANDBY
POWER APPLICATIONS
12V 33 AH @ 20 HR RATE,
12V 140 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 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

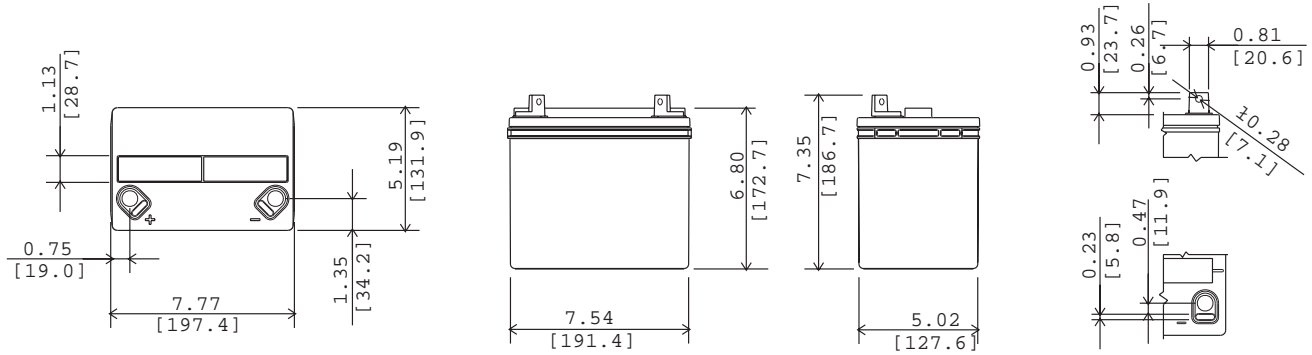
Constant Power Discharge Ratings – Watts Per Cell @ 77°F (25°C)

End Point Volts/Cell	Operating Time to End Point Voltage (in minutes)									
	5	10	15	20	30	40	45	50	60	90
1.67	282	183	140	115	86	69	63	58	50	39

C&D Technologies, Inc.
DYNASTY Division
900 East Keefe Avenue
Milwaukee, WI 53212
Phone: 800-396-2789
Fax: 414-961-6506



UPS12-140



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

UPS12-140 – Specifications

Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60 Hz (Ω)
6	12.84	27 lbs. 12 kg	Absorbed H ₂ SO ₄ 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 @ 20° C (68° F)					
Operating Temperature 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 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 (6.5 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 voltage allowed = 1.4% RMS (4% P-P) Maximum current allowed = 1.3 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 in.-lbs. (4.5 N-m).					
Terminal Hardware Annual Retorque	32 in.-lbs. (3.48 N-m).					

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

End Point Volts/Cell	Operating Time in End Point Voltage (in minutes)									
	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

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

End Point Volts/Cell	Operating Time to End Point Voltage (in hours)														
	.083	.25	.50	.75	1	2	3	5	8	10	12	20	24	72	100
1.90	87.0	46.0	30.0	24.0	18.1	11.0	8.03	5.20	3.39	2.73	2.38	1.42	1.19	0.42	0.30
1.85	101	55.2	34.0	27.2	20.5	11.8	8.40	5.48	3.58	2.90	2.51	1.54	1.29	0.45	0.33
1.80	113	61.2	37.2	29.7	22.3	12.4	8.80	5.64	3.71	3.02	2.59	1.61	1.35	0.46	0.34
1.75	121	67.2	40.0	31.7	23.5	13.0	9.07	5.80	3.81	3.10	2.62	1.65	1.38	0.47	0.34

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