

HIGH RATE SERIES



UPS12-140

**VALVE REGULATED
LEAD ACID BATTERY
FOR UPS STANDBY
POWER APPLICATIONS
12V 33 AH @ 20 HR RATE,
12V 137 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 consistent cell-to-cell performance, highest paste packing efficiency and uniform grid protection.
- Lowest calcium levels among battery manufacturers minimizing grid growth and extending battery life.
- UL-recognized component.
- Thermally welded case-to-cover bond to eliminate leakage.
- 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 – 140 Watts Per Cell For 15 Minutes to 1.67 Volts per Cell

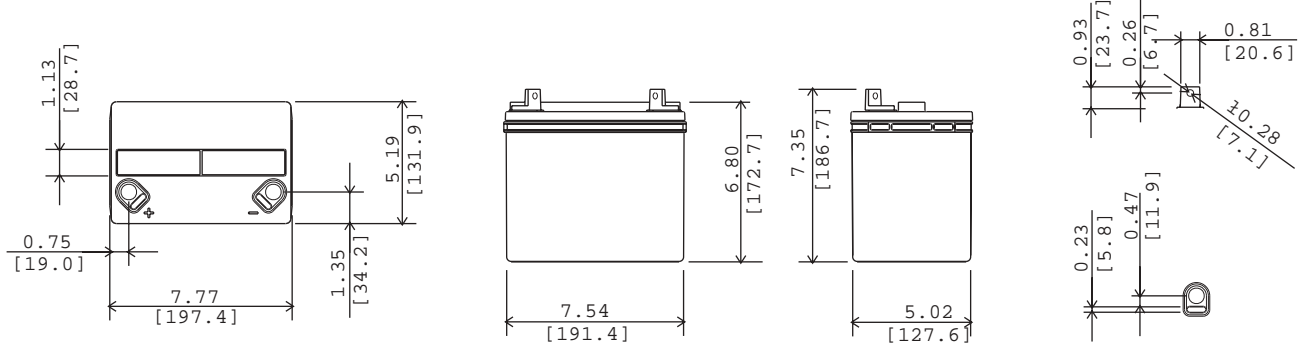
Constant Power Discharge Ratings – Watts Per Cell @ 77°F (25°C)

End Point Volts/Cell	Operating Time to End Point Voltage (in minutes)									
	5	10	15	20	30	40	45	50	60	90
1.67	284	177	137	113	84	68	62	57	49	34

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*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 (w)
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	137 watts per cell at the 15 minute rate to 1.67 volts per cell at 77° F (25° C). 33 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	273	172	133	110	82	66.4	60.8	56.0	48.2	33.7
1.70	281	175	135	112	83	67.2	61.5	56.7	48.9	34.0
1.67	284	177	137	113	84	67.7	62.0	57.2	49.1	34.2
1.65	288	179	139	114	85	68.1	62.2	57.3	49.2	34.3
1.60	290	181	140	116	86	68.6	62.7	57.7	49.5	34.4

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	108	52	33	25	20.0	11.4	8.03	5.16	3.43	2.80	2.39	1.47	1.23	0.42	0.32
1.85	120	59	37	27	21.7	12.2	8.47	5.48	3.59	2.92	2.48	1.52	1.28	0.45	0.33
1.80	134	66	41	30	23.5	12.8	8.80	5.64	3.70	3.01	2.54	1.59	1.33	0.47	0.35
1.75	148	70	42	31	24.6	13.2	9.17	5.80	3.81	3.10	2.62	1.64	1.38	0.48	0.36

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