

HIGH RATE SERIES



UPS12-270 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 – 282 Watts Per Cell For 15 Minutes to 1.67 Volts per Cell

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

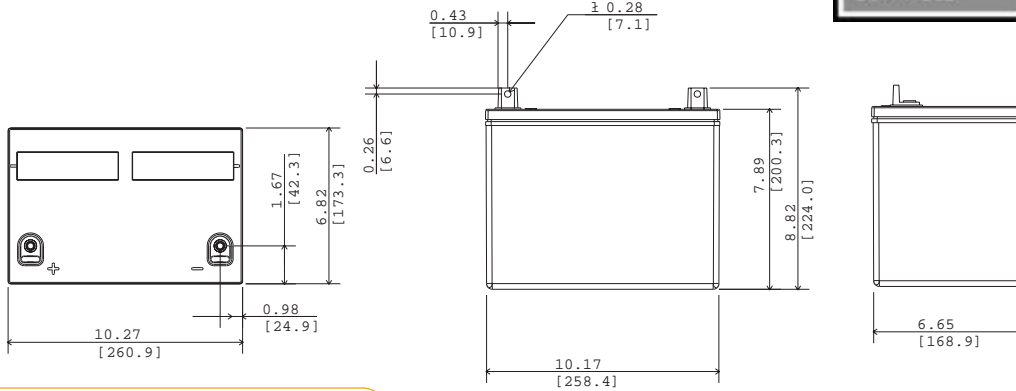
End Point Volts/Cell	Operating Time to End Point Voltage (in minutes)									
	5	10	15	20	30	40	45	50	60	90
1.67	524	361	282	234	176	143	130	120	104	82

SPECIALTY BATTERY DIVISION

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UPS12-270



UPS12-270 – Specifications

Cells Per Unit	Voltage Per Unit	Weight	Electrolyte	Maximum Discharge Current	Short Circuit Current	Ohms Imped. 60 Hz (Ω)
6	12.84	57.5 lbs. 26.1 kg	Absorbed H ₂ SO ₄ SG = 1.300	800 Amps	3600 Amps @ 0.1 sec.	0.0040 Ohms

Capacity	282 watts per cell at the 15 minute rate to 1.67 volts per cell at 77°F (25°C). 75 Ah @ 20 hr. rate to 1.75 volts per cell @ 77°F (25°C) 66 Ah @ 10 hr rate to 1.80 volts per cell @ 25°C (68°F)
Operating Temperature Range	Discharge; -40°F (-40°C) to +140°F (60°C), Charge; -4°F (-20°C) to +122°F (50°C)
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 (15 amperes @ 100% depth of discharge)
Equalization and Cycle Service Charging Voltage	14.4 to 14.8 VDC/unit Average at 77°F (25°C).
AC Ripple (Charger)	0.5% RMS or 1.5% of float charge voltage recommended for best results. Maximum voltage allowed = 4% P-P Maximum current allowed = 3.75 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 Current Discharge Ratings – Amperes @ 77°F (25°C)

Run Time to 1.75 Volts per Cell (in minutes)

End Point Volts/Cell	5	10	15	20	30	40	45	50	60	90
1.75	484	342	270	225	171	139	127	117	102	80
1.70	512	356	279	231	175	141	129	119	104	82
1.67	524	361	282	234	176	143	130	120	104	82
1.65	531	364	284	235	177	143	131	121	105	82
1.60	544	370	287	237	178	144	132	122	105	82

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

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

Operating Time to End Point Voltage (in hours)

End Point Volts/Cell	1	2	3	5	8	10	12	24
1.90	39.0	24.2	17.3	11.6	7.75	6.40	5.42	2.75
1.85	43.5	25.5	18.3	12.1	8.05	7.29	6.53	2.92
1.80	47.0	27.0	19.3	12.6	8.39	7.60	6.82	3.06
1.75	49.0	28.0	19.9	12.8	8.60	7.79	6.98	3.13

Note: Specifications subject to change.