



HIGH RATE SERIES

- Epoxy-sealed posts eliminate leaks
- Pure lead, low calcium, high tin positive grids deliver quick high-rate power
- Puncture resistant micro-porous glass mat separators extend life
- Tank formed plates optimize cell voltage balance and performance
- Reinforced flame retardant (rated UL94, V0 28% LOI) polypropylene or standard polypropylene case and cover resists bulging and meets safety requirements
- Flame arresting, low pressure, self-sealing valve on flame-retardant or low-pressure, self-sealing valve on standard, maximizes gas recombination efficiency and minimizes gassing
- Computer-aided design and manufacturing ensure quality products through control of process and standards
- Case and cover heat sealed and 100% tested to prevent leaks
- Float Voltage: 2.25 volts per cell ± 0.1 VPC @ 77°F (25°C)
- Design life 10 years @ 77°F / 25°C (full float)
- All batteries meet or exceed IEEE-485 capacity requirements at shipment

Discharge Ratings in Watts Per Cell To Various End Voltages [at 77°F (25°C)]

Volts per Cell (V.P.C.)	1 Min.	5 Min.	10 Min.	15 Min.	20 Min.	30 Min.	40 Min.	50 Min.	60 Min.
1.80	634	581	481	406	350	276	227	194	168
1.75	752	663	530	440	375	290	236	200	173
1.70	851	727	569	464	391	298	241	203	176
1.67	885	760	588	475	397	301	244	205	177
1.60	973	830	620	492	406	306	246	206	178

Note: Above ratings conform to IEEE-485 standards.

Made in the U.S.A. by East Penn Manufacturing

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DATA SHEET FOR PART NUMBER:
31HR5000*



* 31HR5000S - Standard: Black Cover, Grey Case
 31HR5000 - Flame Retardant: Charcoal Cover and Case

Specifications

NOMINAL VOLTAGE: 12-Volt

FLOAT CHARGE VOLTAGE: 13.50 @ 77°F (25°C)

EQUALIZE CHARGE VOLTAGE: 13.8

OPERATING TEMPERATURE: 50° to 95°F (10°C to 35°C)

TERMINAL: Molded lead terminal with 1/4 x 20 brass inserts

TORQUE VALUE: 60 inch lbs.

RIPPLE: Limited to 0.5% RMS or 1.5% of the float voltage

Battery	DIMENSIONS			Weight
	Length	Width	Height	
31HR5000	13.46 (342)	6.77 (172)	11.20 (284)	98 (45)

Chart contains dimensions in inches over millimeters and pounds over kilograms.

