

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
- Exclusive IPF[®] Technology optimizes power capacity, cell consistency, and long-term reliability
- 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 ± .01 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

DATA SHEET FOR PART NUMBER: 31HR4000*



* 31HR4000S - Standard: Black Cover, Grey Case 31HR4000 - 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	Length	Width	Height	Weight	
31HR4000	12.93 (328)	6.74 (171)	8.70 (221)	74 (34)	

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

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		585	432	342	283	214	174	147	128
1.75	918	644	464	362	301	225	181	151	130
1.70	1006	686	488	374	307	228	183	153	132
1.67	1096	713	496	377	309	230	184	154	132
1.60	1256	760	508	384	314	233	186	155	134

Note: Above ratings conform to IEEE-485 standards.

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

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