

12V (6 cell per unit)

151±1.5mm (5.94inch)

98±1mm (3.86inch)

95±1mm (3.74inch)

101±1mm (3.98inch)

4.00kg (8.82lbs)±4%

-10°C~50°C (14°F~122°F)

-20°C~50°C (-4°F~122°F)

25±3°C (77°F±5) -15°C~50°C (5°F~122°F)

13.6V~13.8V

14.5V~15.0V

≤3%/month

V-0 optional

4.08A

180A

-18 (mV/°C/Block)

-30 (mV/°C/Block)

51W

12Ah

11.5Ah

T1/T2

 $11.0~\text{m}\Omega$

5 years

3-5 years

N/A





SERIES



IGH RAT





HR1251W

Characteristics

Nominal voltage

Capacity (25°C)

Terminal type

Dimensions

Design Life (stand-by)

Weight

Operating

range

temperature

Temperature compensation

Torque

Approx. internal resistance (25°C)

Nominal operating temperature

Float charging voltage at 25°C

Cyclic charging voltage at 25°C

Max. discharge current for 5 seconds

Battery container ABS UL94-HB

Max. charging current (A)

Self discharge rate (25°C)

Nominal power at 15 min. rate 1.67V/cell (25°C)

Length

Width

Height

Total height JIS at 25°C

Discharge

Charge

Storage

Float charge

Cycle charge

Eurobat at 20°C

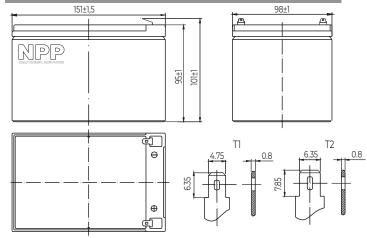
20 Hours rate/10.5V

5 Hours rate/10.5V

Overview

NPP Power High Rate series batteries are specially designed for applications that require high power output. With their high-power density and low internal resistance, the HR series are the right choice for your most demanding applications.

Dimensions & Terminal Type (mm)



Certification & Compliances

Manufactured according to IEC 60896-21 / 22













Construction

Component	Positive Plate	Negative plate	Container	Separator	Electrolyte	Sefety valve	Terminal
Raw material	Lead dioxide	Lead	ABS (V-0 opt.)	AGM	Sulfuric Acid	Rubber	Copper

Constant current discharge characteristics at 25°C

(Ampere/cell)

F.V/Time	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	55.30	35.37	26.70	21.20	14.30	10.60	8.68	4.78	3.39	2.73	2.35
1.67V/cell	52.80	33.81	25.80	20.30	13.90	10.30	8.46	4.73	3.36	2.71	2.33
1.70V/cell	51.40	32.98	25.10	19.90	13.60	10.10	8.33	4.71	3.35	2.70	2.32
1.75V/cell	49.20	31.52	24.30	19.20	13.30	9.84	8.17	4.64	3.33	2.68	2.30
1.80V/cell	46.40	29.76	23.00	18.20	12.80	9.48	7.92	4.52	3.23	2.60	2.33

Constant power discharge characteristics at 25°C

(Watts/cell)

F.V/Time	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	110.28	72.06	52.90	41.90	28.40	21.00	17.20	9.51	6.82	5.49	4.72
1.67V/cell	105.08	68.89	51.00	40.20	27.50	20.30	16.80	9.42	6.76	5.44	4.68
1.70V/cell	102.69	67.04	49.80	39.40	27.00	20.00	16.50	9.36	6.74	5.42	4.66
1.75V/cell	98.21	64.20	48.10	38.00	26.30	19.50	16.20	9.22	6.69	5.38	4.63
1.80V/cell	92.70	60.59	45.50	36.00	25.30	18.80	15.70	8.99	6.49	5.22	4.49

The above characteristics represent average values and can be obtained within three charge and discharge cycles. The batteries must be fully charged before testing. The data in this document is subject to change without notice and become contractual only after written confirmation. Please contact NPP Power for the latest available version.

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