

Sealed Lead Acid Battery

DM12-7.5

Specification Sheet



Introduction

Flyingpower NS (1.2Ah-28Ah) series is designed for standby use with 5-year design life in float service. The series battery is featured of high consistency, excellent performance and reliable standby service life. It is widely applied in UPS/EPS, medical equipment, emergency light and security system.

Battery Features

- Outstanding consistency in Standby system
- Stable quality and high pass rate
- 5 years design life in floating condition
- Low self-discharge rate

Electrical Specification

Design floating Life @ 20°C (68°F)	5 years
Nominal Capacity @ 25°C /77°F	
20 hour rate 0.38 A to 1.75Vpc	7.5 Ah
10 hour rate 0.71 A to 1.75Vpc	7.1 Ah
5 hour rate 1.69 A to 1.70Vpc	8.5 Ah
1 hour rate 4.03 A to 1.60Vpc	4.0 Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	22 mOhms
Max. Discharge Current @ 25°C /77°F	105A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max. Current	1.7A
Standby Use	13.6 - 13.8V
Operating Temperature Range	
Discharge	-15 ~ 35°C
Charge	0 ~ 35°C
Storage	-15 ~ 35°C
Recommended Operating Temp	15 ~ 25°C
Self-Discharge	

3% of capacity declined per month @ 20°C (68°F). The batteries may be stored for up to 6 months @ 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

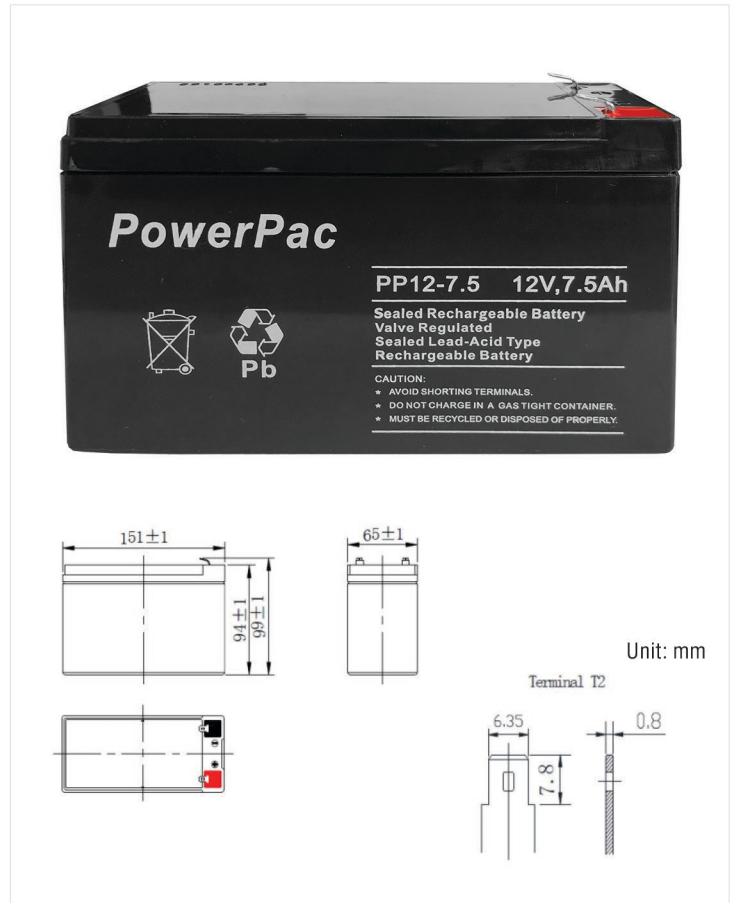
Typical Applications

- UPS & EPS
- Security Power Supply
- Power Utility
- Electrical Toys

Certificates



Battery Picture



Dimension and Weight

Length	Dimension (± 1mm)			Weight (± 2%)	Terminal
	Width	Height	Total Height		
151 mm	65 mm	95 mm	100 mm	2.14 kg	T1/T2
5.9 inch	2.6 inch	3.7 inch	3.9 inch	4.71 lbs	

Constant Current Discharge* (Amperes @25 /77°F)

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60	13.02	7.34	4.03	1.77	1.35	0.74	0.38
1.65	12.47	7.06	3.94	1.73	1.33	0.73	0.38
1.70	11.92	6.78	3.84	1.69	1.30	0.72	0.38
1.75	11.37	6.51	3.75	1.63	1.28	0.71	0.38
1.80	10.82	6.26	3.66	1.58	1.26	0.69	0.36

Constant Power Discharge* (Watts/cell @25 /77°F)

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60	24.94	13.76	8.25	3.81	2.46	1.50	0.81
1.65	23.94	13.21	7.88	3.71	2.42	1.48	0.79
1.70	22.93	12.75	7.50	3.61	2.37	1.47	0.78
1.75	22.10	12.20	7.13	3.51	2.33	1.45	0.78
1.80	21.09	11.74	6.85	3.39	2.27	1.43	0.73

*The mentioned data are derived from of sample test result, for reference only.

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Graphs

