

VRLA Rechargeable Battery

BPS12-6 (BPS12-6FR)

FEATURES

- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Can be used in any orientation(excluding used inverted)
- Absorbent Glass Mat technology for efficient gas recombination

APPLICATION

- UPS
- Fans
- Electronic Toy-Cars
- Emergency Lights
- Rechargeable Flashlights

SPECIFICATIONS

Nominal Voltage	6V	
Nominal Capacity	20 Hour Rate (600mA, 5.25V)	12.0 Ah
	10 Hour Rate (1140mA, 5.25V)	11.4 Ah
	5 Hour Rate (2040mA, 5.25V)	10.2 Ah
	1 Hour Rate (7200mA, 4.65V)	7.20 Ah
Approx. Weight	1980g(4.37lbs.)	
Terminals	T1 (Faston Tab 187) T2 is optional	
Max. Discharge Current	180 A (5 sec.)	
Max. Charge Current	3.60 A	
Operating Temperature Range	Charge	0°C~40°C(32°F~104°F)
	Discharge	-20°C~50°C(-4°F~122°F)
	Storage	-20°C~40°C(-4°F~104°F)
Self Discharge	< 3% per month (25°C)	
Internal Resistance	≤ 9mΩ (Fully Charged)	



CONTAINER MATERIAL

- BPS12-6:
ABS: UL 94-HB (Dark gray color)
- BPS12-6FR:
ABS: UL 94-V0 (Light gray color)

 ISO 9001	 ISO14001
 MH19884 UL	 C4M20310-2474-E-16 CE
● IEC61056	● JIS C 8702
● GB/T 19639	

OUTER DIMENSIONS mm(inch)	Length (L)	Width (W)	Container Height (H)	Total Height (TH)
	151±1.5(5.94±0.06)	50±1.5(1.97±0.06)	94±1.5(3.70±0.06)	100±2.0(3.94±0.08)

151 ± 1.5(5.94 ± 0.06)

50 ± 1.5(1.97 ± 0.06)

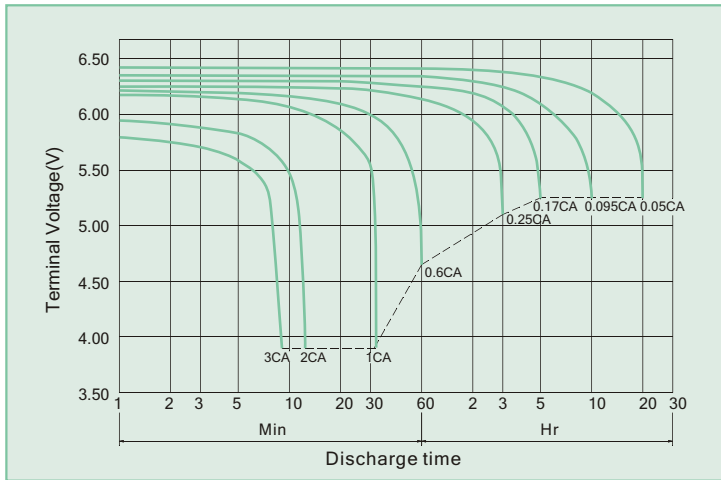
94 ± 1.5(3.70 ± 0.06)

100 ± 2(3.94 ± 0.08)

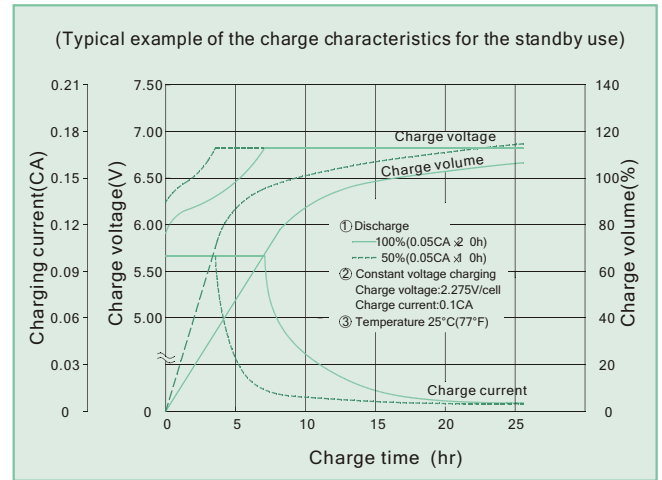
TERMINAL TYPE

- Terminal T1
 - 3.2(0.13)
 - 4.75(0.19)
 - 6.35(0.25)
 - 0.8(0.03)
- Terminal T2
 - 3.4(0.13)
 - 7.85(0.31)

BPS12-6 (BPS12-6FR) discharge characteristics (25°C /77°F)



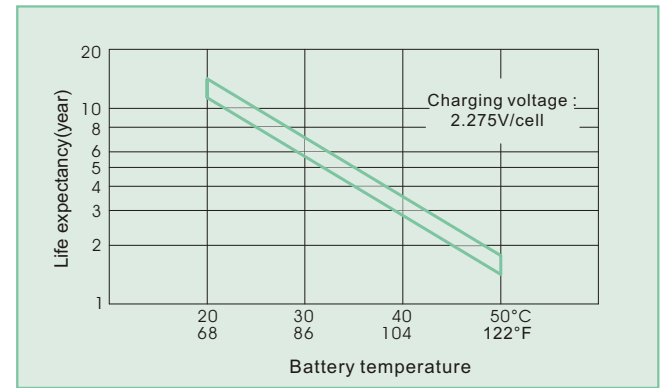
Battery Charging Characteristics



Charging Procedure

Application	Charging method	Charging Voltage at 25°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C /cell)	Max. charging current (CA)	Charging time 0.1CA, 25°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service		2.40~2.50	-4	0.3	16	10	

Effect Of Temperature On Long Term Float Life



Constant power discharge characteristics at 25 °C/77 °F Unit: W

F.V. (V/cell) \ Discharge Time	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	216.9	159.7	128.0	76.1	43.7	17.5	12.06	6.74	3.55
1.75V	251.1	173.0	133.9	79.0	45.0	17.8	12.24	6.84	3.60
1.70V	266.8	179.2	138.0	80.8	45.8	18.0	12.31	6.87	3.62
1.65V	278.8	183.5	141.2	82.0	46.3	18.1	12.35	6.89	3.63
1.60V	288.0	187.2	144.0	82.8	46.8	18.2	12.39	6.89	3.63

Constant current discharge characteristics at 25 °C/77 °F Unit: A

F.V. (V/cell) \ Discharge Time	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	39.1	28.1	22.3	12.9	7.34	2.91	2.010	1.123	0.591
1.75V	46.1	30.5	23.3	13.4	7.56	2.97	2.040	1.140	0.600
1.70V	48.9	31.6	24.0	13.7	7.70	3.00	2.051	1.146	0.603
1.65V	51.1	32.3	24.6	13.9	7.79	3.02	2.058	1.149	0.605
1.60V	52.8	33.0	25.0	14.0	7.87	3.04	2.064	1.149	0.605

All data shall be changed without prior notice, BB reserves the right to explain and update the information contained hereinto.

A/0 REV. Aug. 2009

<p>USA: B&B BATTERY(USA) INC. 6415 RANDOLPH ST.COMMERCE, CA,90040 U.S.A. TEL:1-323-278-1900.1-800-278-8599 FAX:1-323-278-1268 E-Mail:sales@bb-battery.com</p> <p>CHINA FACTORY: B. B. BATTERY CO., LTD. CHENG DONG TRIAL AREA,HUANG GANG, RAOPING, GUANG DONG,CHINA,515700 TEL:86-768-7601001-2 FAX:86-768-7601469 E-Mail:maggy@bb-battery.com</p>	<p>EUROPE: B&B BATTERY(EUROPE) B.V. LAAN VAN KRONENBRUG 8, 1183AS AMSTELVEEN, THE NETHERLANDS TEL: +852-91282711 MOBILE: +852-91282711 E-Mail: dliu@bb-battery.com</p> <p>HONG KONG: NATIONAL TRADING LTD. TEL:852-2301-3800 FAX:852-2739-1182 E-Mail:bbhk@hkstar.com</p>	<p>JAPAN: B&B BATTERY(JAPAN) CO., LTD. 1375-11 NARAHARA-MACHI,HACHIOJI, TOKYO 193-0803,JAPAN. TEL:81-426-25-6375 FAX:81-426-25-6375 E-Mail:miyata@bb-battery.com</p> <p>TAIWAN: B. B. BATTERY(TAIWAN) CO., LTD. TEL:886-6-502-5150 FAX:886-6-589-8087 E-Mail:maggy@bb-battery.com</p>
--	---	---