

VRLA Rechargeable Battery

BPS2.3-12 (BPS2.3-12FR)

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
- Video Camcorders

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (115mA, 10.5V)	2.30 Ah
	10 Hour Rate (219mA, 10.5V)	2.19 Ah
	5 Hour Rate (391mA, 10.5V)	1.96 Ah
	1 Hour Rate (1380mA, 9.30V)	1.38 Ah
Approx. Weight	940g(2.07lbs.)	
Terminals	T1 (Faston Tab 187)	
Max. Discharge Current	34.5 A (5 sec.)	
Max. Charge Current	0.69 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	≤ 60mΩ (Fully Charged)	



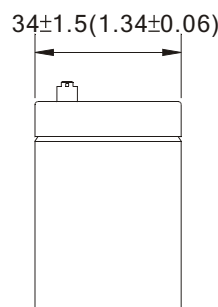
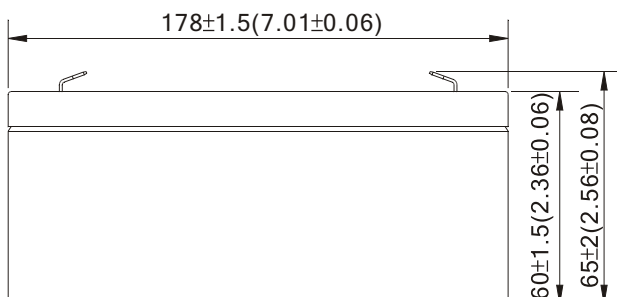
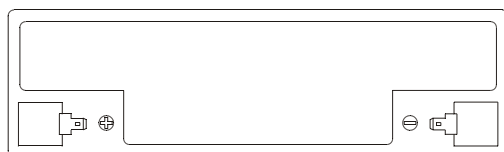
CONTAINER MATERIAL

- BPS2.3-12:
ABS: UL 94-HB (Dark gray color)
- BPS2.3-12FR:
ABS: UL 94-V0 (Light gray color)

 ISO 9001	 ISO14001
 UL	 CE
<ul style="list-style-type: none"> ● IEC61056 ● GB/T 19639 	<ul style="list-style-type: none"> ● JIS C 8702

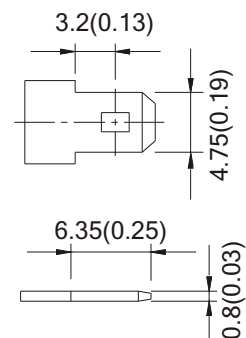
OUTER DIMENSIONS mm(Inch)

Length (L)	Width (W)	Container Height (H)	Total Height (TH)
178±1.5(7.01±0.06)	34±1.5(1.34±0.06)	60±1.5(2.36±0.06)	65±2.0(2.56±0.08)

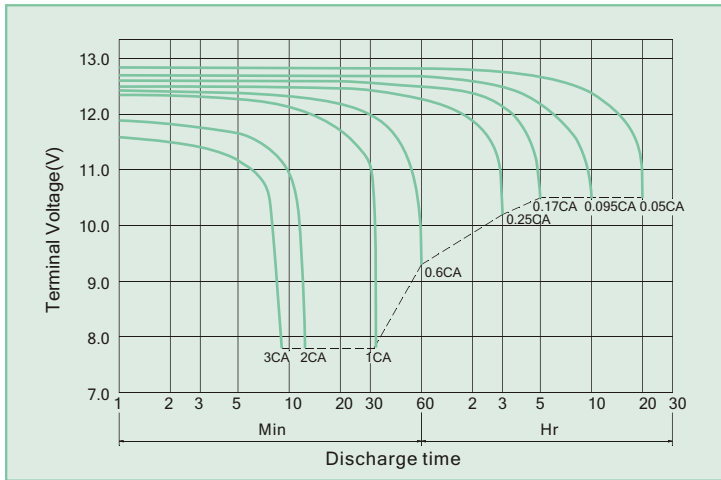


TERMINAL TYPE

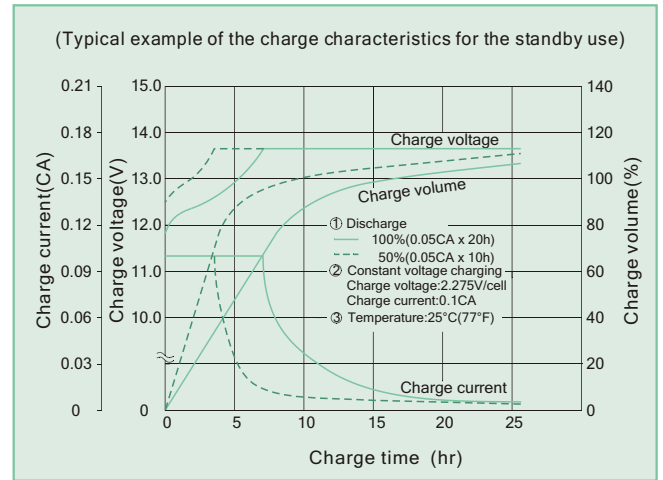
- Terminal T1



BPS2.3-12 (BPS2.3-12) discharge characteristics (25°C /77°F)



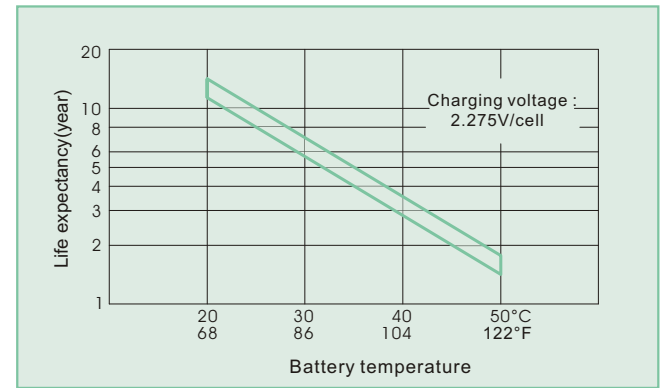
Battery Charging Characteristics



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	83.16	61.22	49.06	29.19	16.74	6.70	4.622	2.583	1.359
1.75V	96.25	66.32	51.31	30.30	17.24	6.84	4.692	2.622	1.380
1.70V	102.26	68.70	52.90	30.99	17.55	6.90	4.718	2.635	1.392
1.65V	106.86	70.35	54.12	31.43	17.76	6.95	4.734	2.643	1.392
1.60V	110.40	71.76	55.20	31.74	17.94	6.99	4.748	2.643	1.392

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	7.49	5.39	4.27	2.474	1.407	0.559	0.385	0.215	0.113
1.75V	8.83	5.84	4.46	2.568	1.449	0.570	0.391	0.218	0.115
1.70V	9.38	6.05	4.60	2.626	1.475	0.575	0.393	0.220	0.116
1.65V	9.80	6.19	4.71	2.663	1.493	0.579	0.395	0.220	0.116
1.60V	10.13	6.32	4.80	2.690	1.508	0.582	0.396	0.220	0.116

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

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