

VRLA Rechargeable Battery

BPS100-12

FEATURES

- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Can be used in any orientation(excluding used inverted)
- Flame-arrestor is installed to ensure safety
- Carry handles for easy installation
- Absorbent Glass Mat technology for efficient gas recombination
- Long life expectancy 10 years in float application

APPLICATION

- UPS
- Golf-Carts
- Telecom

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (5.0A, 10.5V)	100 Ah
	10 Hour Rate (9.5A, 10.5V)	95 Ah
	5 Hour Rate (17.0A, 10.5V)	85 Ah
	1 Hour Rate (60.0A, 9.3V)	60 Ah
Approx. Weight	32.7Kg(72.10lbs.)	
Terminals	B3 (Fitting M6 bolt & nut) I2 is optional	
Max. Discharge Current	800 A (5 sec.)	
Max. Charge Current	30 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	≤ 4.5mΩ (Fully Charged)	



CONTAINER MATERIAL

- Standard: ABS(UL 94-HB)
Model Name: BPS100-12
- Optional: Flame Retardant ABS(UL 94-V0)
Model Name: BPS100-12FR

● IEC 60896-21/22 ● JIS C 8704-2
 ● GB/T 19638.2

OUTER DIMENSIONS mm(inch)	Length (L)	Width (W)	Container Height (H)	Total Height (TH)
	329±2.0(12.95±0.08)	172±2.0(6.77±0.08)	215±2.0(8.46±0.08)	B3: 238±2.0(9.37±0.08) I2: 218.5±2.0(8.60±0.08)

TERMINAL TYPE

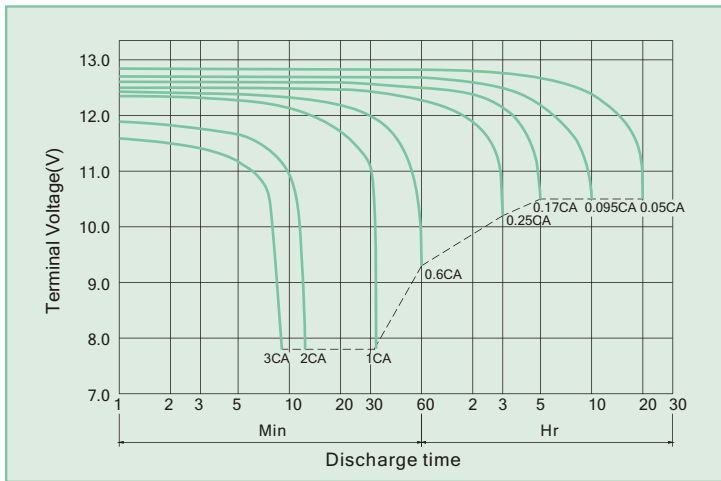
- Terminal B3

[M6 BOLT & NUT]
- Terminal I2

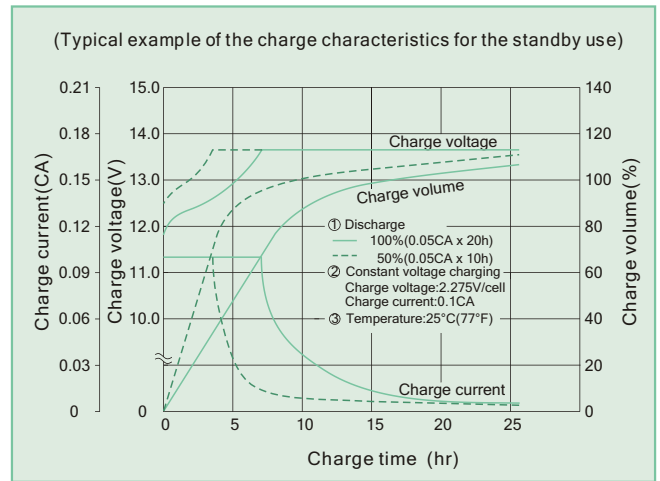
[M6 BOLT]

Terminal Hardware Initial Torque: B3,I2(5.5Nm±5%)

BPS100-12 (BPS100-12FR) discharge characteristics (25°C/77°F)



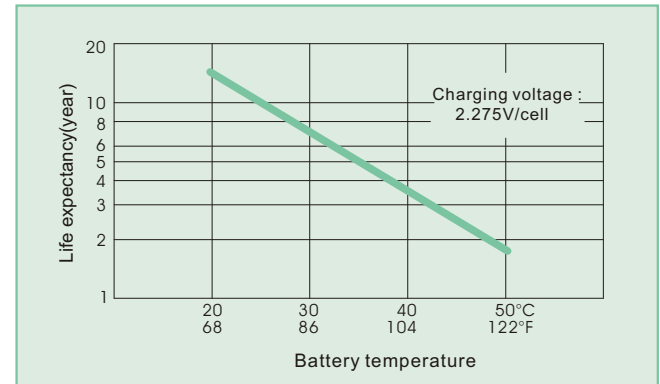
Battery Charging Characteristics



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	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	2065	1271	727.8	291.5	201.0	112.31	59.10
1.75V	2160	1321	749.6	297.3	204.0	114.00	60.00
1.70V	2226	1351	763.1	300.0	205.1	114.57	60.31
1.65V	2278	1373	772.3	302.1	205.8	114.91	60.48
1.60V	2323	1402	780.0	303.9	206.4	114.91	60.48

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

F.V. (V/cell) \ Discharge Time	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	184.6	108.8	61.16	24.29	16.75	9.36	4.93
1.75V	193.0	113.1	62.99	24.78	17.00	9.50	5.00
1.70V	199.0	115.7	64.13	25.00	17.09	9.55	5.03
1.65V	203.6	117.5	64.90	25.17	17.15	9.58	5.04
1.60V	207.7	119.1	65.55	25.33	17.20	9.58	5.04

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

For operation, please refer to the instruction from technical manual.

SC(for Sad) A/0 REV. Aug. 2014

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