

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

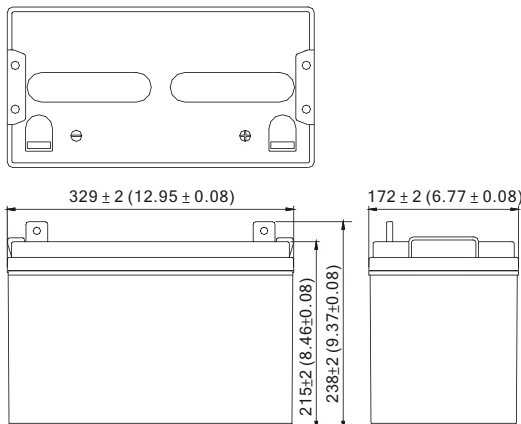
- Standard: ABS(UL 94-HB)
Model Name: BPS100-12
- Optional: Flame Retardant ABS(UL 94-V0)
Model Name: BPS100-12FR



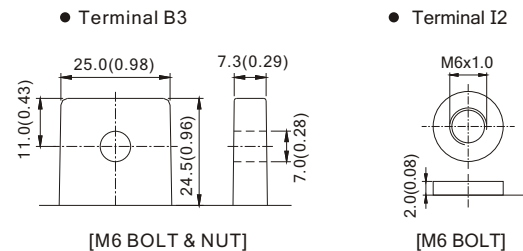
- IEC 60896-21/22
- JIS C 8704-2
- GB/T 19638.2

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)

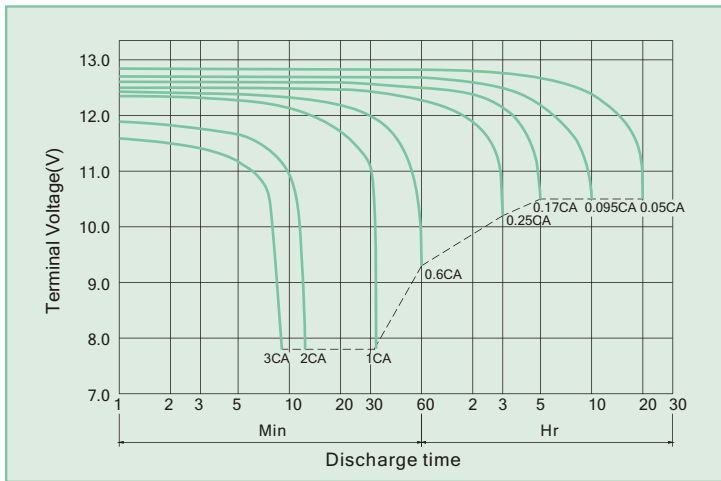


TERMINAL TYPE

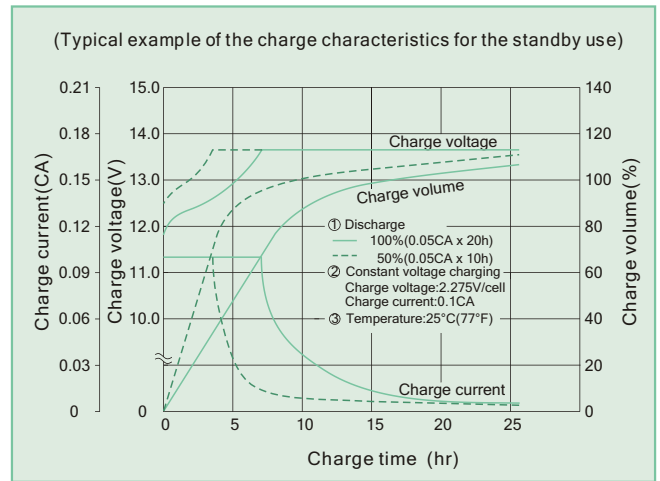


Terminal Hardware Initial Torque: B3,I2(5.5Nm±5%)

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



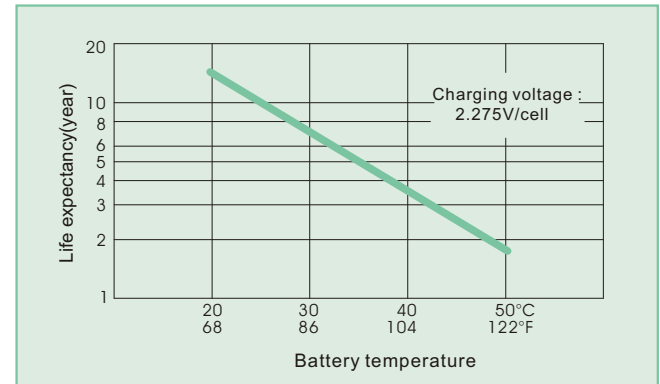
Battery Charging Characteristics



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	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	2948	2530	2065	1256	727.8	291.5	201.0	112.31	59.10
1.75V	3313	2740	2160	1304	749.6	297.3	204.0	114.00	60.00
1.70V	3624	2839	2226	1334	763.1	300.0	205.1	114.57	60.31
1.65V	3787	2907	2278	1353	772.3	302.1	205.8	114.91	60.48
1.60V	3913	2965	2323	1366	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	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	268.3	228.1	184.6	107.5	61.16	24.29	16.75	9.36	4.93
1.75V	307.0	247.2	193.0	111.6	62.99	24.78	17.00	9.50	5.00
1.70V	335.9	256.0	199.0	114.2	64.13	25.00	17.09	9.55	5.03
1.65V	357.5	267.0	203.6	115.8	64.90	25.17	17.15	9.58	5.04
1.60V	376.5	277.3	207.7	116.9	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 herein.

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

SC(for Sader) A/0 REV. May, 2016

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