

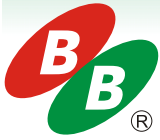


Measures

Technology

Values

Innovation



VRLA Rechargeable Battery

BPS33-12 S (BPS33-12FR S)

Handle Type

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
- Long life expectancy 10 years in float application

APPLICATION

- UPS
- Wheelchairs
- Lawn Mowers
- Electronic Medical Equipment
- Golf-Carts

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	10 Hour Rate (3300mA, 10.8V)	33.0 Ah
	5 Hour Rate (5860mA, 10.8V)	29.3 Ah
	30 Min Rate (4035mA,9.6V)	20.17 Ah
Approx. Weight	11250g(24.81lbs.)	
Terminals	B7 (Fitting M6 bolt & nut) I2 is optional	
Max. Discharge Current	495 A (5 sec.)	
Max. Charge Current	9.9 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	≤ 9m Ω (Fully Charged)	



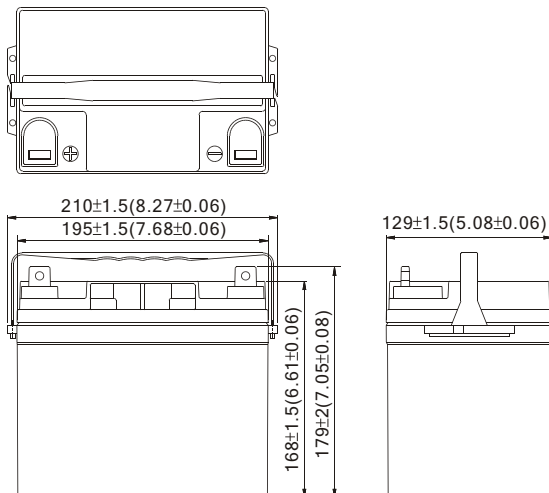
CONTAINER MATERIAL

- BPS33-12 S:
ABS: UL 94-HB (Dark gray color)
- BPS33-12FR S:
ABS: UL 94-V0 (Light gray color)

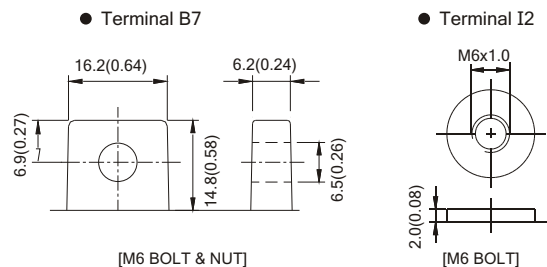
 ISO 9001	 ISO 14001
 MH19884 UL	 C4M20310-2474-E-16 CE
● IEC 61056-1	● JIS C 8702-1
● GB/T 19639.1	

OUTER DIMENSIONS mm(inch)

Length (L)	Width (W)	Container Height (H)	Total Height (TH)
210±1.5(8.27±0.06)	129±1.5(5.08±0.06)	168±1.5(6.61±0.06)	B7: 179±2.0(7.05±0.08) I2: 168±2.0(6.61±0.08)

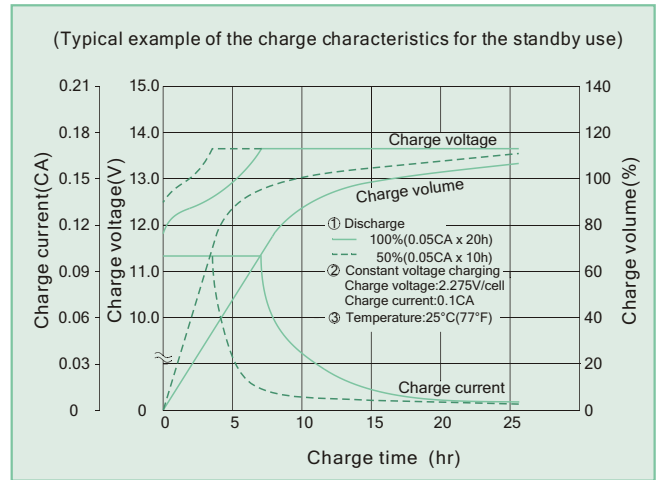
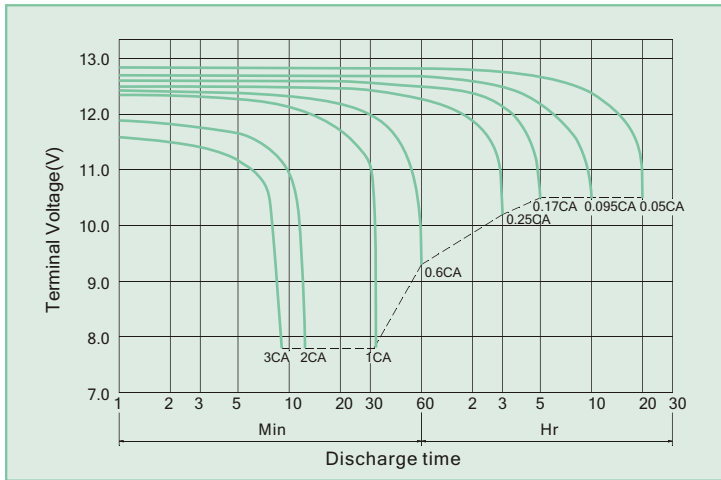


TERMINAL TYPE



Terminal Hardware Initial Torque: B7/I2(5.5Nm±5%)

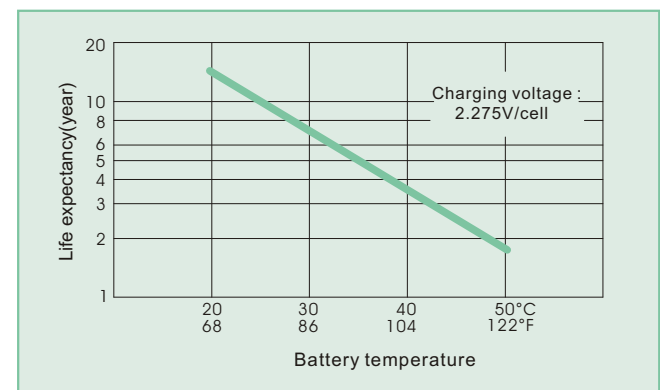
BPS33-12 s (BPS33-12FR s) discharge characteristics (25°C /77°F) Battery Charging Characteristics



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	1247	918	736	438	251.1	100.6	69.3	39.31	20.45
1.75V	1444	995	770	454	258.6	102.6	70.4	39.90	20.76
1.70V	1534	1031	794	465	263.3	103.5	70.8	40.10	20.86
1.65V	1603	1055	812	471	266.4	104.2	71.0	40.20	20.90
1.60V	1656	1076	828	476	269.1	104.8	71.2	40.22	20.92

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	112.4	80.8	64.0	37.1	21.10	8.38	5.78	3.300	1.704
1.75V	132.5	87.6	66.9	38.5	21.73	8.55	5.86	3.325	1.730
1.70V	140.7	90.7	69.0	39.4	22.12	8.62	5.90	3.342	1.738
1.65V	147.1	92.9	70.6	39.9	22.39	8.69	5.92	3.348	1.741
1.60V	151.9	94.8	72.0	40.3	22.61	8.74	5.94	3.352	1.744

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

TriA/A0 REV. Oct. 2011

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