

VRLA Rechargeable Battery

BPS33-12 Standard 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	20 Hour Rate (1650mA, 10.5V)	33.0 Ah
	10 Hour Rate (3140mA, 10.5V)	31.4 Ah
	5 Hour Rate (5610mA, 10.5V)	28.1 Ah
	1 Hour Rate (19800mA, 9.3V)	19.8 Ah
Approx. Weight	11250g(24.81lbs.)	
Terminals	B7 (Fitting M6 bolt & nut)	
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

- Standard: ABS(UL 94-HB)
Model Name: BPS33-12
- Optional: Flame Retardant ABS(UL 94-V0)
Model Name: BPS33-12FR

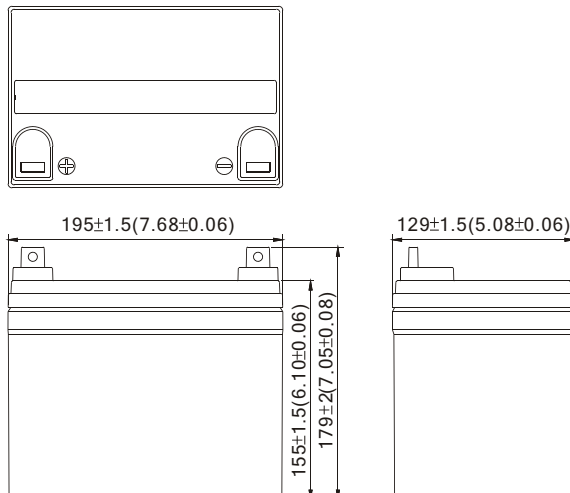
WSF ISO9001 **WSF** ISO14001 **WSF** OHSMS



- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1

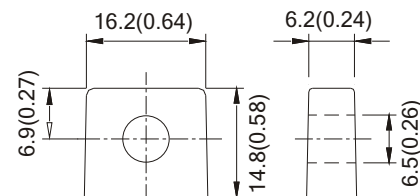
OUTER DIMENSIONS mm(inch)

Length (L)	Width (W)	Container Height (H)	Total Height (TH)
195±1.5(7.68±0.06)	129±1.5(5.08±0.06)	155±1.5(6.10±0.06)	179±2.0(7.05±0.08)



TERMINAL TYPE

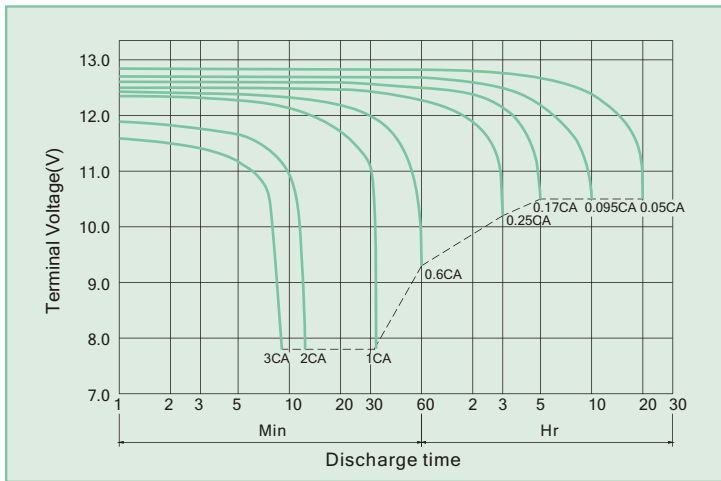
- Terminal B7



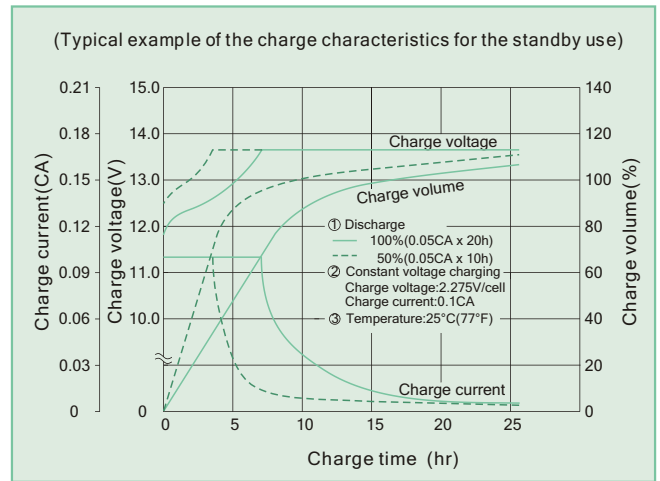
[M6 BOLT & NUT]

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

BPS33-12 (BPS33-12FR) discharge characteristics (25°C/77°F)



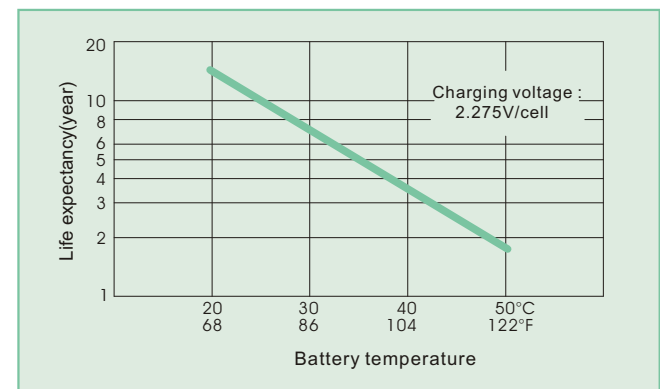
Battery Charging Characteristics



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	1193	878	704	419	240.2	96.2	66.3	37.06	19.50
1.75V	1381	952	736	435	247.4	98.1	67.3	37.62	19.80
1.70V	1467	986	759	445	251.8	99.0	67.7	37.81	19.90
1.65V	1533	1009	776	451	254.9	99.7	67.9	37.92	19.96
1.60V	1584	1030	792	455	257.4	100.3	68.1	37.92	19.96

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	107.5	77.3	61.2	35.5	20.18	8.02	5.53	3.09	1.63
1.75V	126.7	83.8	64.0	36.8	20.79	8.18	5.61	3.13	1.65
1.70V	134.6	86.8	66.0	37.7	21.16	8.25	5.64	3.15	1.66
1.65V	140.7	88.9	67.5	38.2	21.42	8.31	5.66	3.16	1.66
1.60V	145.3	90.6	68.9	38.6	21.63	8.36	5.68	3.16	1.66

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.

A/3 REV. Mar. 2013

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