

VRLA Rechargeable Battery

BPS33-12C 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
- Electronic Medical Equipment
- Wheelchairs
- Golf-Carts
- Lawn Mowers

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	10 Hour Rate (33.0A, 10.8V)	33.0 Ah
	5 Hour Rate (56.1A, 10.5V)	28.1 Ah
	1 Hour Rate (21.45A, 9.6V)	21.45 Ah
Approx. Weight	9.80Kg(21.6lbs.)	
Terminals	B7 (Fitting M6 bolt & nut) I2 is optional	
Max. Discharge Current	330 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	≤ 13mΩ (Fully Charged)	



CONTAINER MATERIAL

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

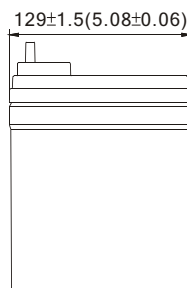
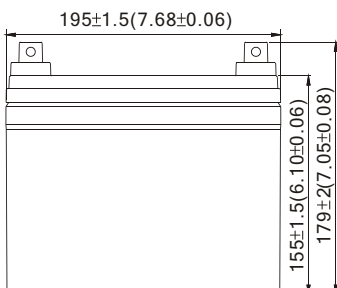
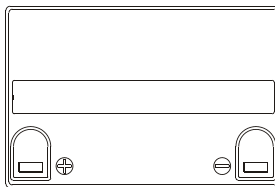
WSF ISO9001 **WSF** ISO14001 **WSF** OHSMS



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

OUTER DIMENSIONS mm(inch)

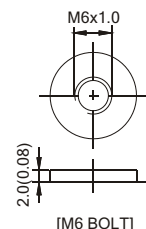
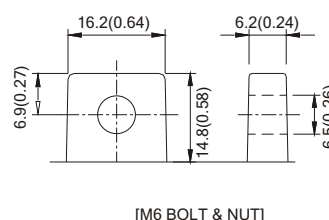
Length (L)	Width (W)	Container Height (H)	Total Height (TH)
195±1.5(7.68±0.06)	129±1.5(5.08±0.06)	155±1.5(6.10±0.06)	179±2.0(7.05±0.08)



TERMINAL TYPE

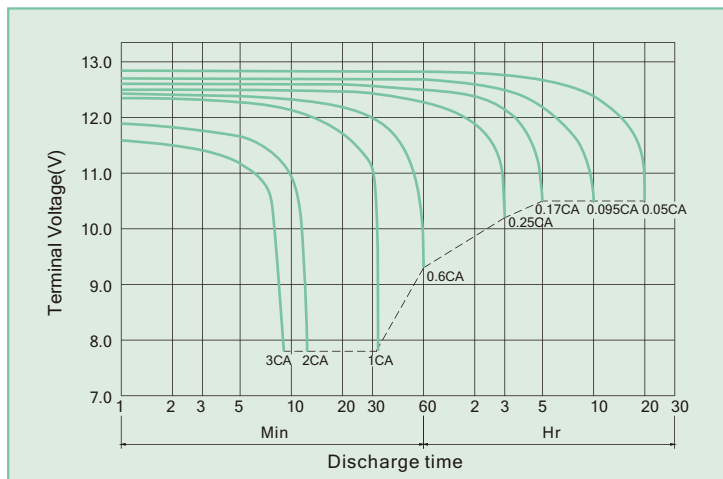
● Terminal B7

● Terminal I2

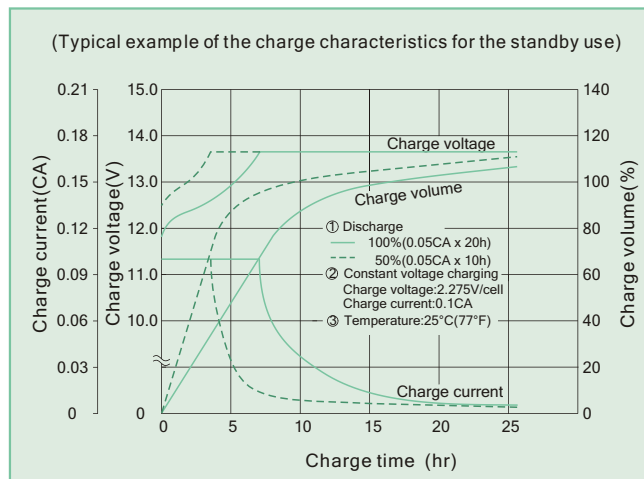


Terminal Hardware Initial Torque: B7/I2(5.5Nm±5%)

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



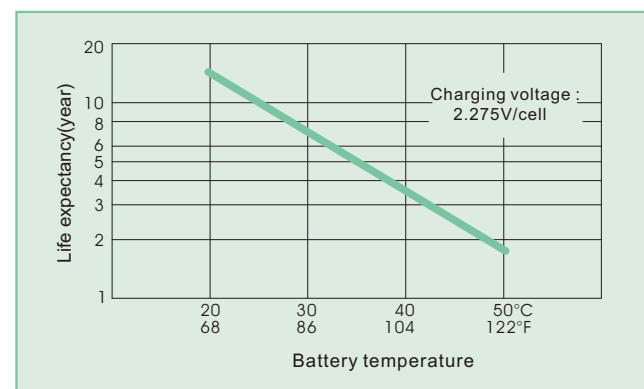
Battery Charging Characteristics



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

Discharge Time F.V.	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr
10.8V	880	717	586	397	238.2	96.2	66.3	39.58
10.5V	988	777	612	412	245.3	98.1	67.3	40.17
10.2V	1082	804	631	421	249.7	99.0	67.7	40.38
9.9V	1130	824	646	427	252.8	99.7	67.9	40.49
9.6V	1168	841	658	432	255.3	100.3	68.1	40.49

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

Discharge Time F.V.	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr
10.8V	80.1	64.7	52.3	33.9	20.01	8.02	5.53	3.30
10.5V	91.6	70.1	54.8	35.3	20.62	8.18	5.61	3.34
10.2V	100.3	72.6	56.4	36.1	20.98	8.25	5.64	3.36
9.9V	106.8	75.8	57.8	36.6	21.24	8.31	5.66	3.37
9.6V	112.4	78.7	58.8	36.9	21.45	8.36	5.68	3.37

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.

Tiral A/0 REV. Oct. 2015

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