



Measures Technology Values Innovation



VRLA Rechargeable Battery

BPS33-6 (BPS33-6FR)

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

APPLICATION

- UPS
- Lighting

SPECIFICATIONS

Nominal Voltage	6V	
Nominal Capacity	20 Hour Rate (1650mA, 5.25V)	33.00 Ah
	10 Hour Rate (3135mA, 5.25V)	31.35 Ah
	5 Hour Rate (5610mA, 5.25V)	28.05 Ah
	1 Hour Rate (19800mA, 4.65V)	19.80 Ah
Approx. Weight	6000g(13.23lbs.)	
Terminals	B1 (Fitting M5 bolt & nut) T2 is optional	
Max. Discharge Current	255 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	≤ 4.5m Ω (Fully Charged)	



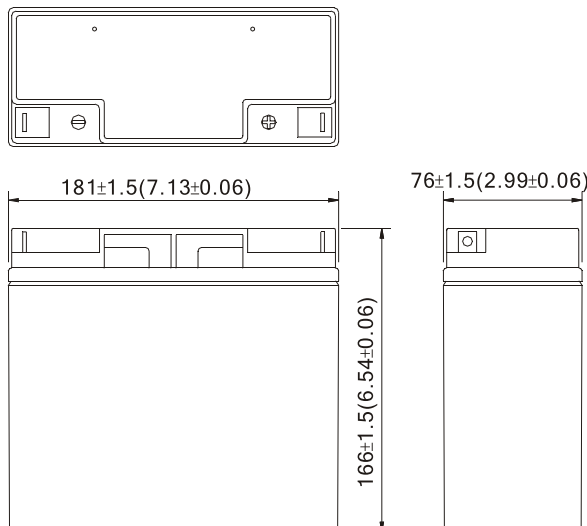
CONTAINER MATERIAL

- BPS33-6:
ABS: UL 94-HB (Dark gray color)
- BPS33-6FR:
ABS: UL 94-V0 (Light gray color)

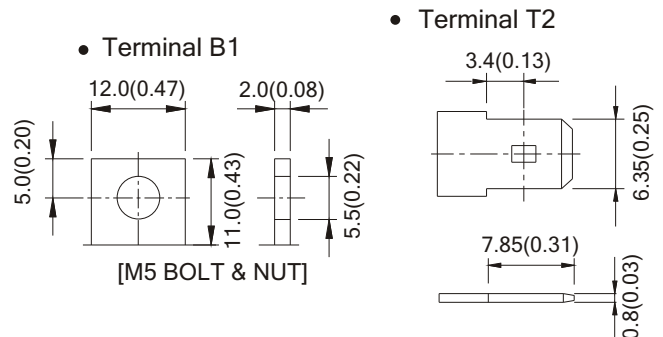
 ISO 9001	 ISO 9001	 ISO 14001
 UL	 CE	
● IEC61056	● JIS C 8702	● GB/T 19639

OUTER DIMENSIONS mm(inch)

Length (L)	Width (W)	Container Height (H)	Total Height (TH)
181±1.5(7.13±0.06)	76±1.5(2.99±0.06)	166±1.5(6.54±0.06)	166±1.5(6.54±0.06)

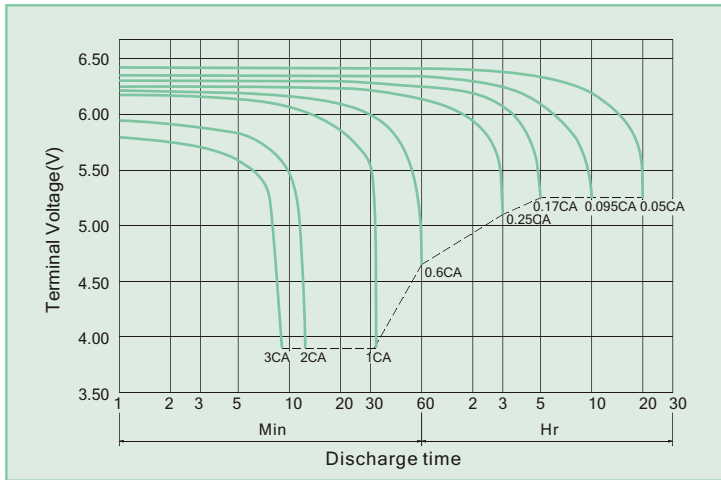


TERMINAL TYPE

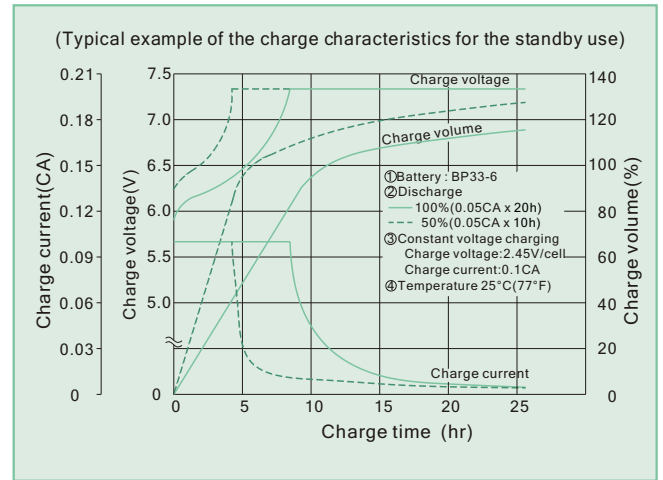


Terminal Hardware Initial Torque: B1 (2.5Nm±5%)

BPS33-6 (BPS33-6FR) discharge characteristics (25°C /77°F)



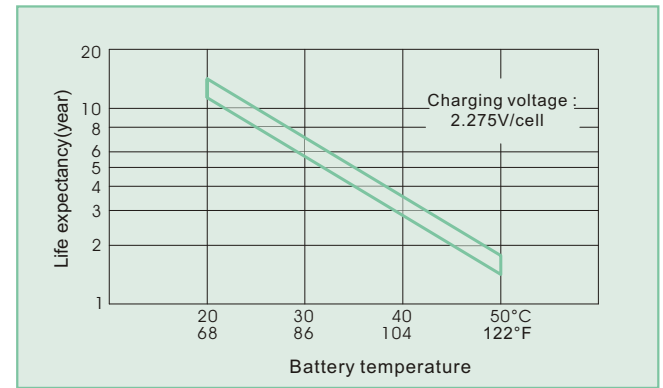
Battery Charging Characteristics



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	596.6	439.2	351.9	209.4	120.1	48.1	33.16	18.53	9.75
1.75V	690.5	475.8	368.1	217.3	123.7	49.1	33.66	18.81	9.90
1.70V	733.6	492.9	379.5	222.3	125.9	49.5	33.84	18.90	9.95
1.65V	766.6	504.7	388.2	225.4	127.4	49.8	33.96	18.96	9.98
1.60V	792.0	514.8	396.0	227.7	128.7	50.1	34.06	18.96	9.98

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	20.2	8.02	5.527	3.089	1.625
1.75V	126.7	83.8	64.0	36.8	20.8	8.18	5.610	3.135	1.650
1.70V	134.6	86.8	66.0	37.7	21.2	8.25	5.641	3.151	1.658
1.65V	140.7	88.9	67.5	38.2	21.4	8.31	5.660	3.160	1.663
1.60V	145.3	90.6	68.9	38.6	21.6	8.36	5.677	3.160	1.663

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

A/0 REV. Aug. 2009

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