

## VRLA Rechargeable Battery

# BPS180-6 (BPS180-6FR)

### 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

### APPLICATION

- UPS
- Telecom

### SPECIFICATIONS

Nominal Voltage	6V	
Nominal Capacity	20 Hour Rate (9.00A, 5.25V)	180 Ah
	10 Hour Rate (17.1A, 5.25V)	171 Ah
	5 Hour Rate (30.6A, 5.25V)	153 Ah
	1 Hour Rate (108A, 4.65V)	108 Ah
Approx. Weight	28.8Kg(63.5lbs.)	
Terminals	B9 (Fitting M8 bolt & nut) I3 is optional	
Max. Discharge Current	800 A (5 sec.)	
Max. Charge Current	54 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	≤2.5mΩ (Fully Charged)	



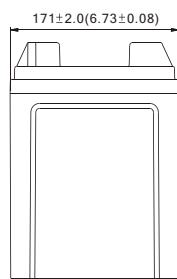
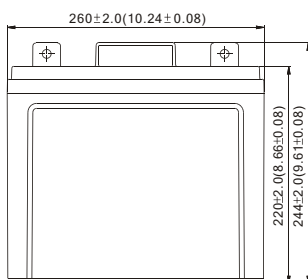
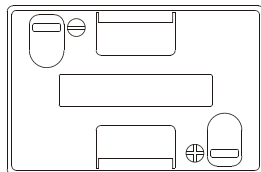
### CONTAINER MATERIAL

- BPS180-6:  
ABS: UL 94-HB (Dark gray color)
- BPS180-6FR:  
ABS: UL 94-V0 (Light gray color)

 ISO 9001	 ISO 14001
 UL	 CE
● IEC60896	● JIS C 8704
● GB/T 19638	

### OUTER DIMENSIONS mm(inch)

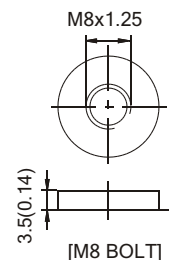
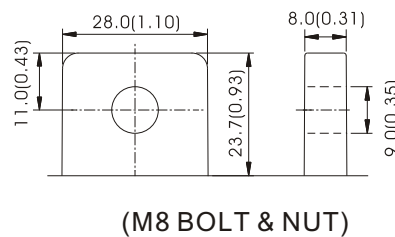
Length (L)	Width (W)	Container Height (H)	Total Height (TH)
260±2.0(10.24±0.08)	171±2.0(6.73±0.08)	220±2.0(8.66±0.08)	244±2.0(9.61±0.08)



### TERMINAL TYPE

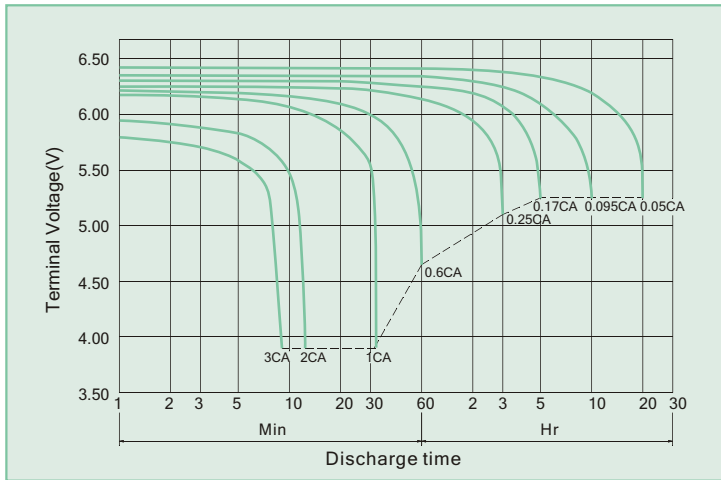
● Terminal B9

● Terminal I3

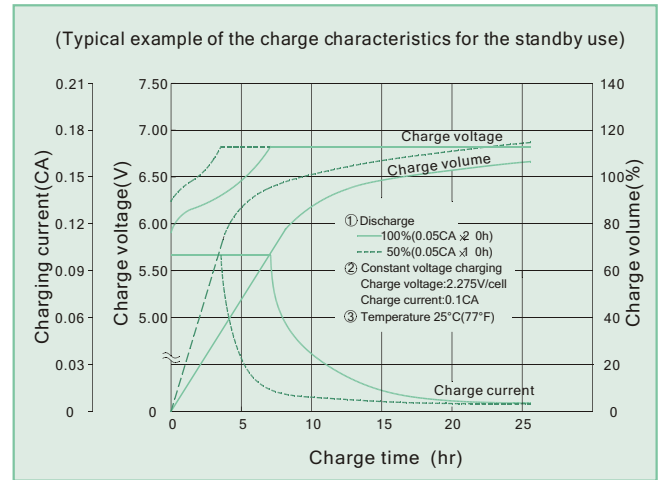


Terminal Hardware Initial Torque: B9,I3(10.0Nm±5%)

**BPS180-6 (BPS180-6FR) discharge characteristics (25°C /77°F)**



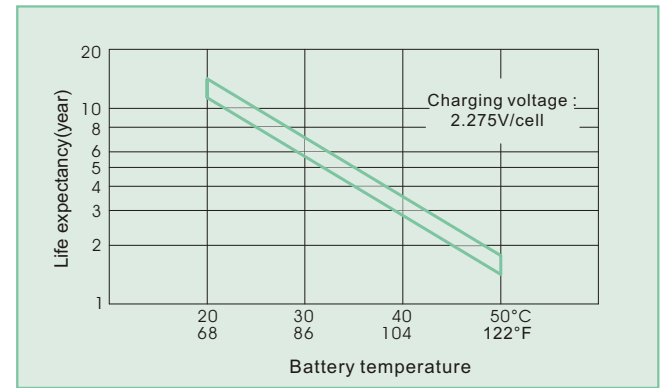
**Battery Charging Characteristics**



**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	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	1732	1165	655.1	262.3	180.9	101.1	53.33
1.75V	1812	1209	674.6	267.6	183.6	102.6	54.00
1.70V	1868	1237	686.8	270.0	184.6	103.1	54.27
1.65V	1911	1254	695.1	271.9	185.3	103.4	54.41
1.60V	1949	1267	702.0	273.5	185.8	103.4	54.41

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

F.V. (V/cell) \ Discharge Time	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	301.2	197.4	110.1	43.71	30.15	16.84	8.89
1.75V	315.1	204.9	113.4	44.59	30.60	17.10	9.00
1.70V	324.8	209.6	115.4	45.00	30.77	17.19	9.05
1.65V	332.3	212.5	116.8	45.32	30.88	17.23	9.07
1.60V	339.0	214.7	118.0	45.58	30.96	17.23	9.07

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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