



VRLA Rechargeable Battery

BPS8-6 (BPS8-6FR)

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
- Fans
- Electronic Toy-Cars
- Emergency Lights
- Rechargeable Flashlights

SPECIFICATIONS

| | | |
|-----------------------------|------------------------------------|------------------------|
| Nominal Voltage | 6V | |
| Nominal Capacity | 20 Hour Rate (400mA, 5.25V) | 8.0 Ah |
| | 10 Hour Rate (760mA, 5.25V) | 7.6 Ah |
| | 5 Hour Rate (1360mA, 5.25V) | 6.8 Ah |
| | 1 Hour Rate (4800mA, 4.65V) | 4.8 Ah |
| Approx. Weight | 1350g(2.98lbs.) | |
| Terminals | T1 (Faston Tab 187) T2 is optional | |
| Max. Discharge Current | 120 A (5 sec.) | |
| Max. Charge Current | 2.4 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 | ≤ 12.5mΩ (Fully Charged) | |

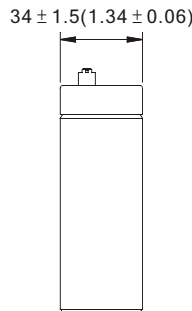
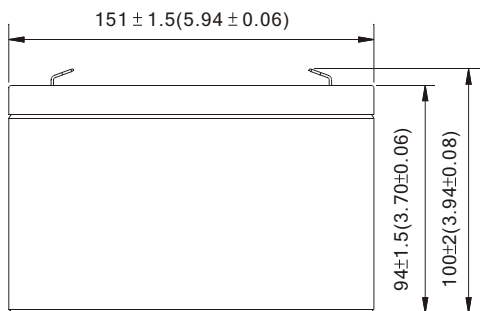
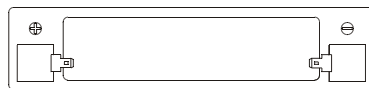


CONTAINER MATERIAL

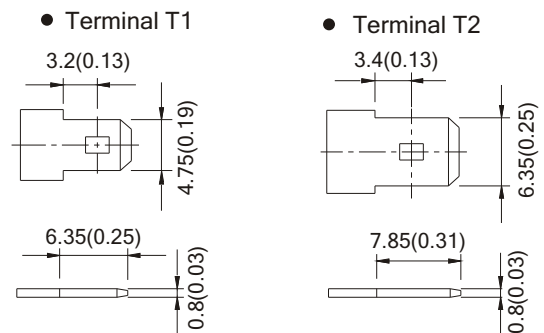
- BPS8-6:
ABS: UL 94-HB (Dark gray color)
- BPS8-6FR:
ABS: UL 94-V0 (Light gray color)

| | |
|------------------------------------------------------------------------------------|----------------------------------------------------------------|
| ISO 9001 | ISO 14001 |
| MH19884 UL | C4M20310-2474-E-16 CE |
| <ul style="list-style-type: none"> ● IEC61056 ● GB/T 19639 | <ul style="list-style-type: none"> ● JIS C 8702 |

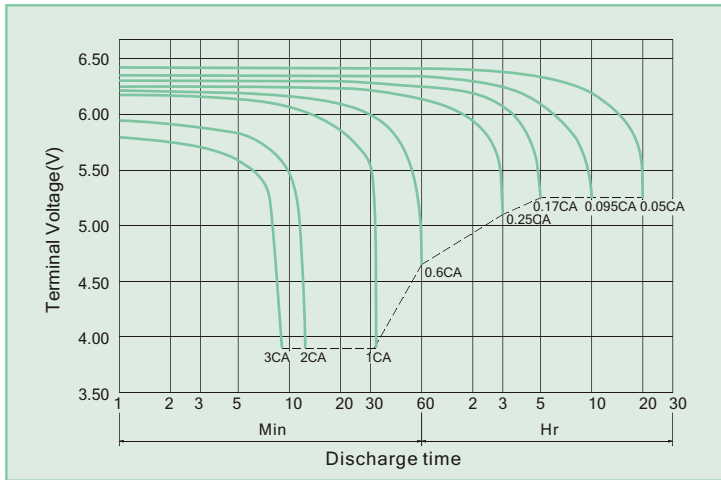
| OUTER DIMENSIONS mm(inch) | Length (L) | Width (W) | Container Height (H) | Total Height (TH) |
|---------------------------|--------------------|-------------------|----------------------|--------------------|
| | 151±1.5(5.94±0.06) | 34±1.5(1.34±0.06) | 94±1.5(3.70±0.06) | 100±2.0(3.94±0.08) |



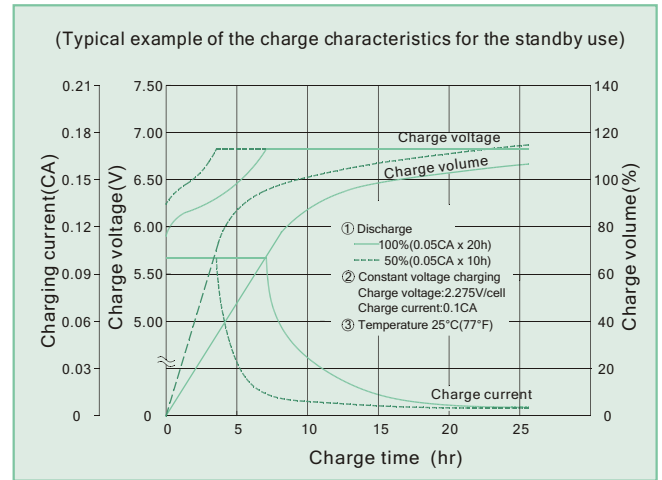
TERMINAL TYPE



BPS8-6 (BPS8-6FR) discharge characteristics (25°C /77°F)



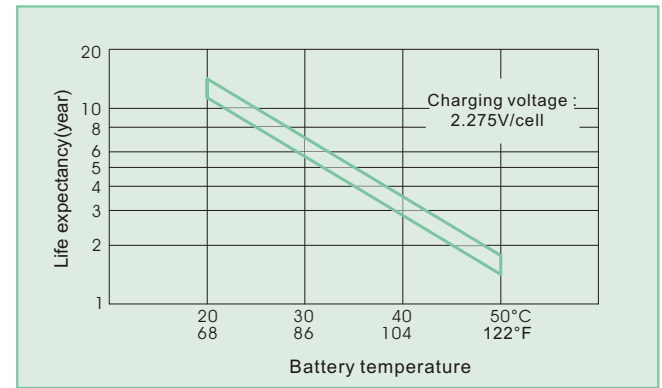
Battery Charging Characteristics



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 | 144.6 | 106.5 | 85.3 | 50.8 | 29.1 | 11.66 | 8.04 | 4.49 | 2.36 |
| 1.75V | 167.4 | 115.3 | 89.2 | 52.7 | 30.0 | 11.89 | 8.16 | 4.56 | 2.40 |
| 1.70V | 177.9 | 119.5 | 92.0 | 53.9 | 30.5 | 12.00 | 8.20 | 4.58 | 2.41 |
| 1.65V | 185.8 | 122.4 | 94.1 | 54.7 | 30.9 | 12.08 | 8.23 | 4.60 | 2.42 |
| 1.60V | 192.0 | 124.8 | 96.0 | 55.2 | 31.2 | 12.16 | 8.26 | 4.60 | 2.42 |

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 | 26.06 | 18.74 | 14.84 | 8.60 | 4.89 | 1.94 | 1.340 | 0.749 | 0.394 |
| 1.75V | 30.71 | 20.31 | 15.52 | 8.93 | 5.04 | 1.98 | 1.360 | 0.760 | 0.400 |
| 1.70V | 32.63 | 21.04 | 16.00 | 9.14 | 5.13 | 2.00 | 1.367 | 0.764 | 0.402 |
| 1.65V | 34.10 | 21.54 | 16.37 | 9.26 | 5.19 | 2.01 | 1.372 | 0.766 | 0.403 |
| 1.60V | 35.23 | 21.97 | 16.70 | 9.36 | 5.24 | 2.03 | 1.376 | 0.766 | 0.403 |

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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