

## VRLA Rechargeable Battery

# BPS40-12 (BPS40-12FR)

### 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
- Electronic Medical Equipment
- Wheelchairs
- Golf-Carts
- Lawn Mowers



### SPECIFICATIONS

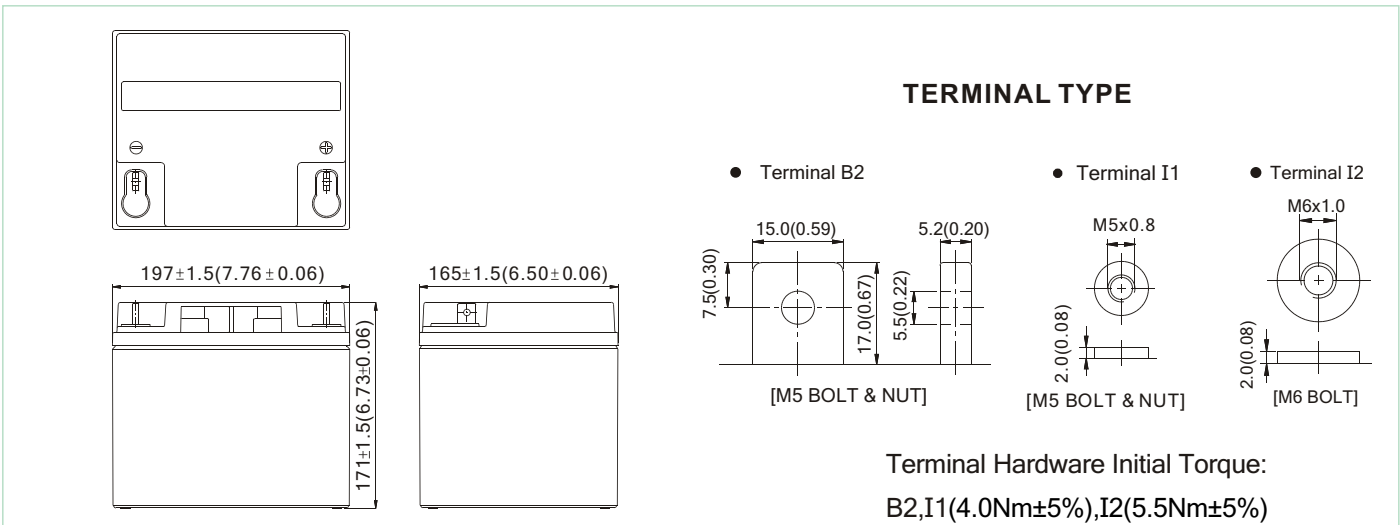
Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (2000mA, 10.5V)	40 Ah
	10 Hour Rate (3800mA, 10.5V)	38 Ah
	5 Hour Rate (6800mA, 10.5V)	34 Ah
	1 Hour Rate (24000mA, 9.3V)	24 Ah
Approx. Weight	14300g(31.53lbs.)	
Terminals	B2 (Fitting M5 bolt & nut) , I1 and I2 are optional	
Max. Discharge Current	600 A (5 sec.)	
Max. Charge Current	12 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	≤8mΩ (Fully Charged )	

### CONTAINER MATERIAL

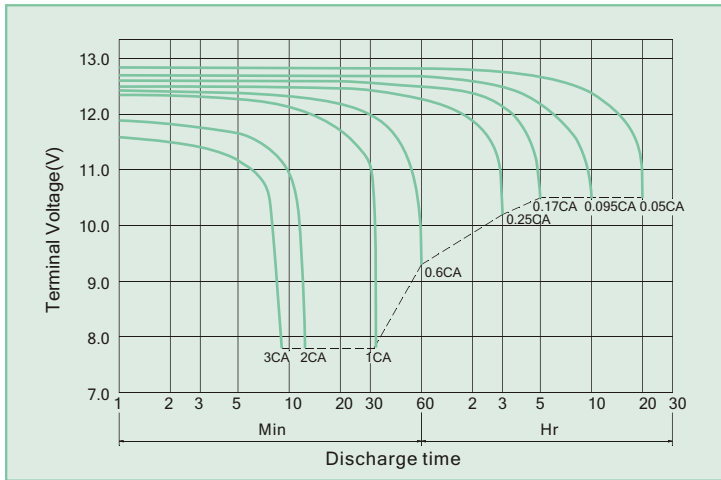
- BPS40-12:  
ABS: UL 94-HB (Dark gray color)
- BPS40-12FR:  
ABS: UL 94-V0 (Light gray color)

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

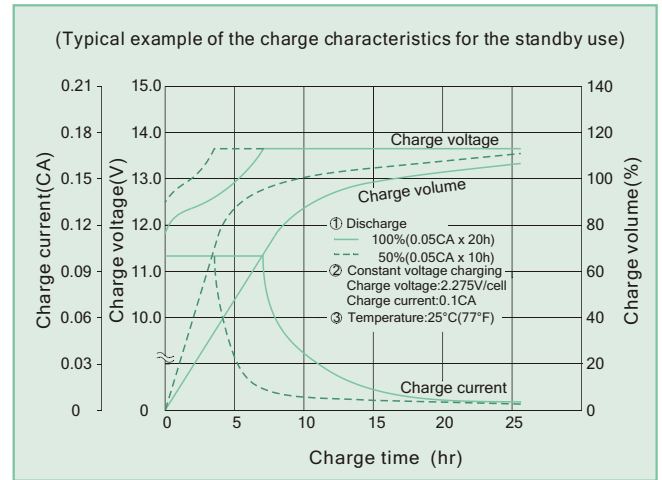
OUTER DIMENSIONS mm(inch)	Length (L)	Width (W)	Container Height (H)	Total Height (TH)
	197±1.5(7.76±0.06)	165±1.5(6.50±0.06)	171±1.5(6.73±0.06)	171±1.5(6.73±0.06)



**BPS40-12 (BPS40-12FR) discharge characteristics (25°C /77°F)**



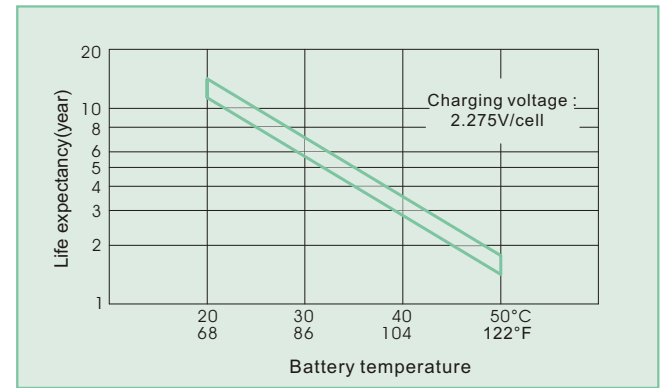
**Battery Charging Characteristics**



**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	1446	1065	853	508	291.1	116.6	80.4	44.93	23.64
1.75V	1674	1153	892	527	299.9	118.9	81.6	45.60	24.00
1.70V	1779	1195	920	539	305.2	120.0	82.0	45.83	24.12
1.65V	1858	1224	941	547	308.9	120.8	82.3	45.96	24.19
1.60V	1920	1248	960	552	312.0	121.6	82.6	45.96	24.19

**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	130.3	93.7	74.2	43.0	24.46	9.72	6.70	3.74	1.97
1.75V	153.6	101.5	77.6	44.7	25.20	9.91	6.80	3.80	2.00
1.70V	163.2	105.2	80.0	45.7	25.65	10.00	6.84	3.82	2.01
1.65V	170.5	107.7	81.8	46.3	25.96	10.07	6.86	3.83	2.02
1.60V	176.1	109.9	83.5	46.8	26.22	10.13	6.88	3.83	2.02

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

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