

VRLA Rechargeable Battery

BC120-12 (BC120-12FR)

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
- Its design life is up to 5 years in floating application

APPLICATION

- UPS
- Golf-Carts
- Telecom

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (6.0A, 10.5V)	120 Ah
	10 Hour Rate (11.4A, 10.5V)	114 Ah
	5 Hour Rate (20.4A, 10.5V)	102 Ah
	1 Hour Rate (72.0A,9.3V)	72 Ah
Approx. Weight	35Kg(77.16lbs.)	
Terminals	B4 (Fitting M6 bolt & nut) I2 is optional	
Max. Discharge Current	800 A (5 sec.)	
Max. Charge Current	36 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	≤ 5m Ω (Fully Charged)	

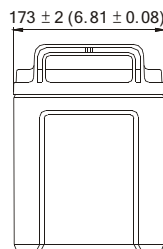
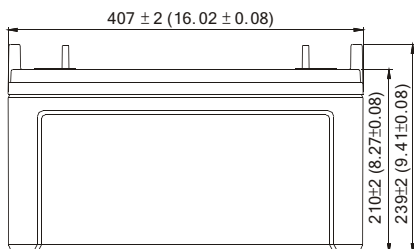
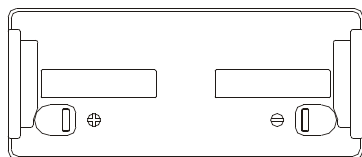


CONTAINER MATERIAL

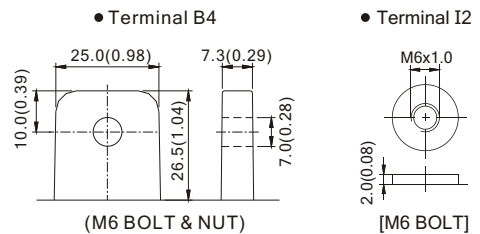
- BC120-12:
ABS: UL 94-HB (Dark gray color)
- BC120-12FR:
ABS: UL 94-V0 (Light gray color)

<p>ISO 9001</p>	<p>ISO14001</p>
<p>UL</p>	<p>CE</p>
● IEC61056	● JIS C 8702
● GB/T 19639	

OUTER DIMENSIONS mm(inch)	Length (L)	Width (W)	Container Height (H)	Total Height (TH)
	407±2.0(16.02±0.08)	173±2.0(6.81±0.08)	210±2.0(8.27±0.08)	239±2.0(9.41±0.08)

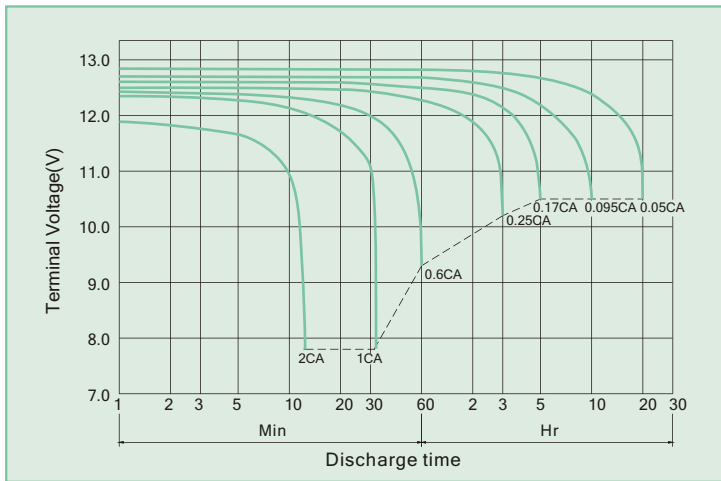


TERMINAL TYPE

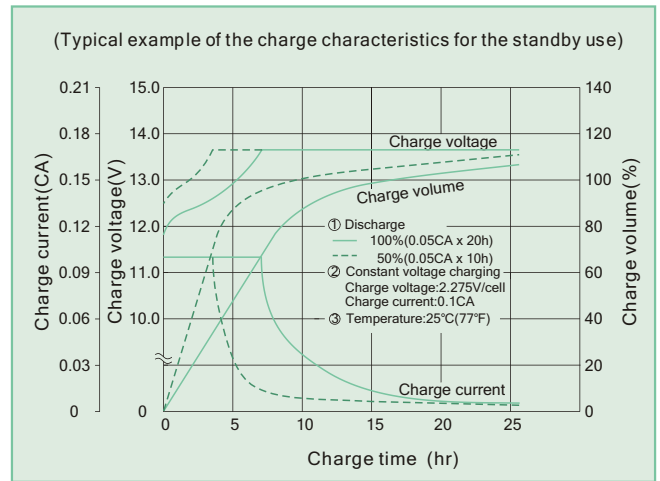


Terminal Hardware Initial Torque: B4,I2(5.5Nm±5%)

BC120-12 (BC120-12FR) discharge characteristics (25°C/77°F)



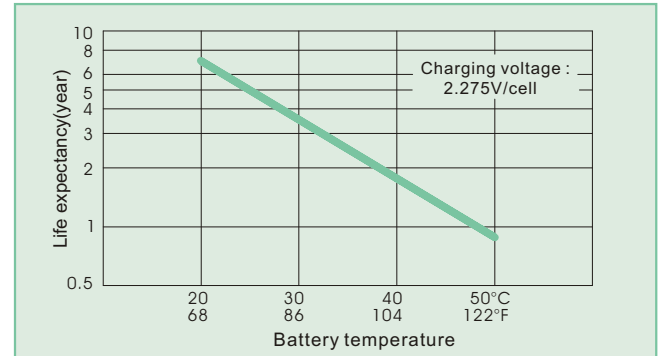
Battery Charging Characteristics



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

Discharge F.V. (V/cell) \ Discharge Time	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	2007.7	1360.1	855.8	349.8	241.2	134.8	70.9
1.75V	2099.5	1412.5	881.5	356.8	244.8	136.8	72.0
1.70V	2163.2	1444.4	897.4	360.0	246.1	137.5	72.4
1.65V	2214.0	1465.0	908.3	362.5	247.0	137.9	72.6
1.60V	2257.2	1479.7	917.3	364.7	247.7	137.9	72.6

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

Discharge F.V. (V/cell) \ Discharge Time	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	179.4	116.4	71.9	29.2	20.2	11.3	5.9
1.75V	187.6	120.8	74.0	29.8	20.4	11.4	6.0
1.70V	193.4	123.7	75.5	30.0	20.5	11.5	6.0
1.65V	197.9	125.4	76.3	30.2	20.6	11.5	6.0
1.60V	201.8	126.6	77.0	30.4	20.6	11.5	6.0

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

Trial A/3 REV. Feb. 2011

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