

VRLA Rechargeable Battery

BC18-12

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

APPLICATION

- UPS
- Emergency Lights
- Fishing Lights
- Video Camcorders(VCR)



SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (900mA, 10.5V)	18.0 Ah
	10 Hour Rate (1710mA, 10.5V)	17.1 Ah
	5 Hour Rate (3060mA, 10.5V)	15.3 Ah
	1 Hour Rate (10800mA,9.30V)	10.8 Ah
Approx. Weight	5620g(12.39lbs.)	
Terminals	B1 (Fitting M5 bolt & nut) , T2 and I1 are optional	
Max. Discharge Current	270 A (5 sec.)	
Max. Charge Current	5.4 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	≤ 16mΩ (Fully Charged)	

CONTAINER MATERIAL

- Standard: ABS(UL 94-HB)
Model Name: BC18-12
- Optional: Flame Retardant ABS (UL 94-V0)
Model Name: BC18-12FR

- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1

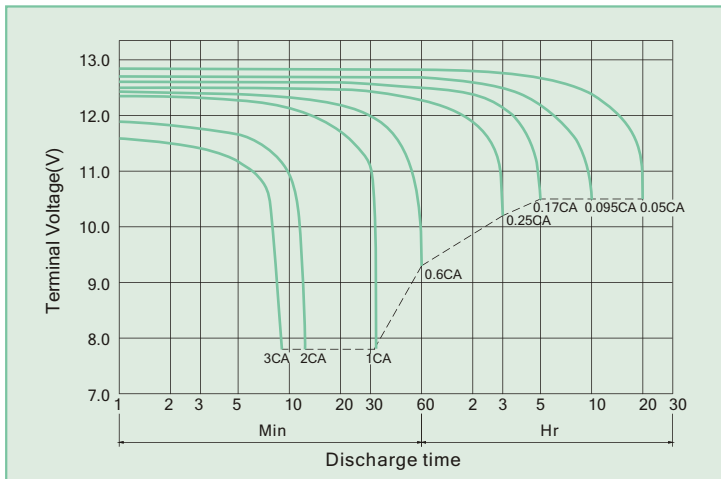
OUTER DIMENSIONS mm(inch)	Length (L)	Width (W)	Container Height (H)	Total Height (TH)
	181±1.5(7.13±0.06)	76±1.5(2.99±0.06)	166±1.5(6.54±0.06)	166±1.5(6.54±0.06)

TERMINAL TYPE

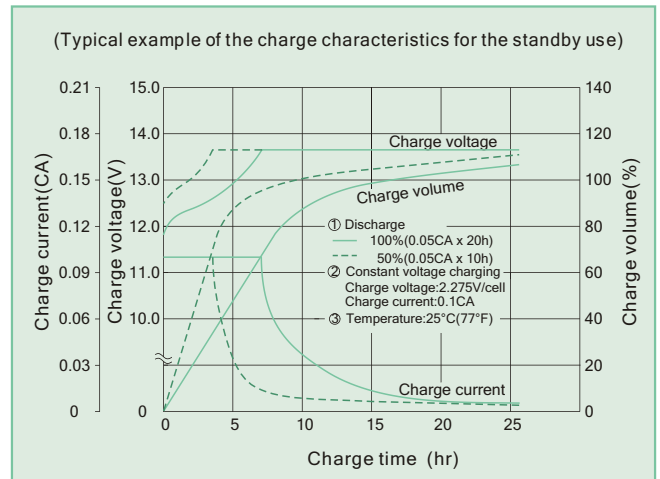
- Terminal B1: [M5 BOLT & NUT] with dimensions: 12.0(0.47)mm width, 2.0(0.08)mm height, 4.5(0.18)mm offset, 11.0(0.43)mm offset, 5.5(0.22)mm height.
- Terminal T2: with dimensions: 3.4(0.13)mm width, 6.35(0.25)mm height, 7.95(0.31)mm offset, 0.8(0.03)mm offset.
- Terminal I1: [M5 BOLT] with dimensions: M5x0.8mm diameter, 2.0(0.08)mm height.

Terminal Hardware Initial Torque:
B1(2.5Nm±5%),I1(4.0Nm±5%)

BC18-12 (BC18-12FR) discharge characteristics (25°C/77°F)



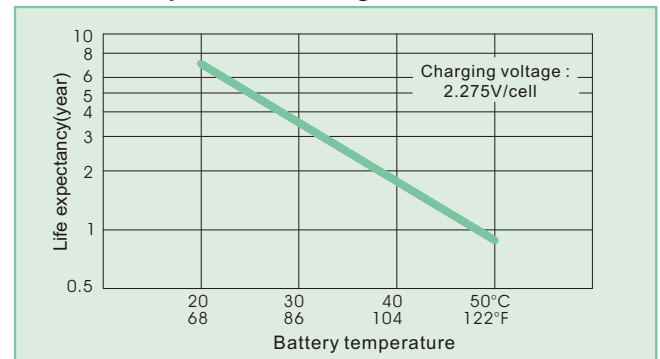
Battery Charging Characteristics



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	651	479	384	229	131.0	52.5	36.2	20.21	10.64
1.75V	753	519	401	237	134.9	53.5	36.7	20.52	10.80
1.70V	800	538	414	242	137.3	54.0	37.0	20.63	10.85
1.65V	836	551	424	246	139.0	54.4	37.1	20.69	10.88
1.60V	864	561	432	249	140.4	54.7	37.2	20.69	10.88

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	58.63	42.17	33.38	19.36	11.01	4.372	3.014	1.685	0.886
1.75V	69.11	45.69	34.92	20.10	11.34	4.460	3.060	1.710	0.900
1.70V	73.43	47.33	36.00	20.55	11.54	4.500	3.077	1.718	0.904
1.65V	76.72	48.46	36.83	20.84	11.68	4.532	3.088	1.724	0.907
1.60V	79.26	49.44	37.57	21.05	11.80	4.558	3.097	1.724	0.907

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

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