



VRLA Rechargeable Battery

BC35-12 (BC35-12FR)

Standard Type



Measures

Technology

Values

Innovation

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
- Electronic Medical Equipment
- Wheelchair



SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (1.75A, 10.5V)	35.0 Ah
	10 Hour Rate (3.33A, 10.5V)	33.25 Ah
	5 Hour Rate (5.95A, 10.5V)	29.75 Ah
	1 Hour Rate (21.00A, 9.3V)	21.0 Ah
Approx. Weight	9.6Kg(21.16lbs.)	
Terminals	B7 (Fitting M6 bolt & nut)	
Max. Discharge Current	350 A (5 sec.)	
Max. Charge Current	10.5 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	≤ 13mΩ (Fully Charged)	

CONTAINER MATERIAL

- BC35-12:
ABS: UL 94-HB (Dark gray color)
- BC35-12FR:
ABS: UL 94-V0 (Light gray color)

WSF
ISO9001

WSF
ISO14001

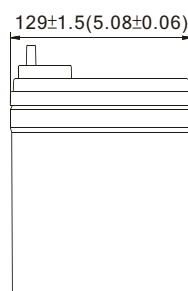
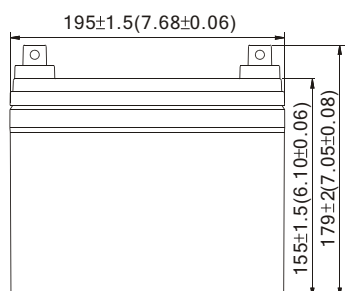
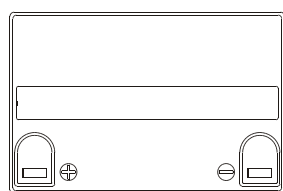
CE
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CE

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

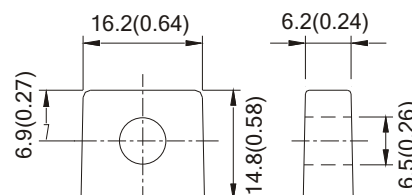
OUTER DIMENSIONS mm(inch)

Length (L)	Width (W)	Container Height (H)	Total Height (TH)
195±1.5(7.68±0.06)	129±1.5(5.08±0.06)	155±1.5(6.10±0.06)	179±2.0(7.05±0.08)



TERMINAL TYPE

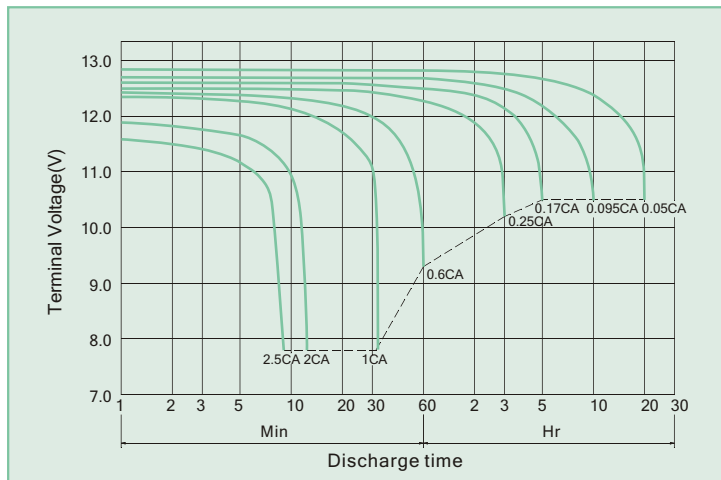
- Terminal B7



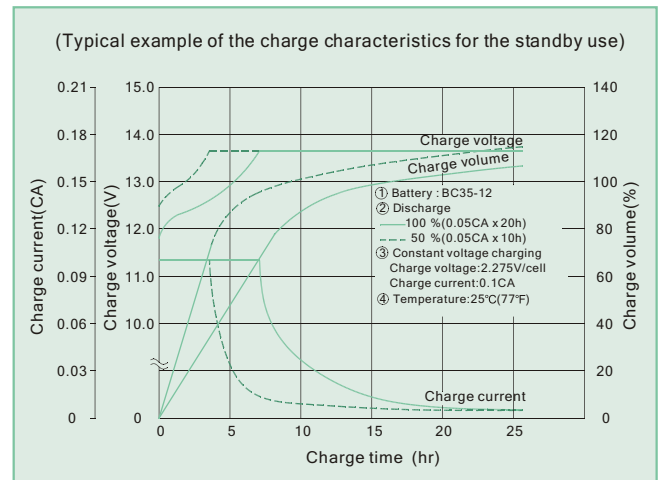
[M6 BOLT & NUT]

Terminal Hardware Initial Torque: B7(5.5Nm±5%)

BC35-12 (BC35-12FR) discharge characteristics (25°C /77°F)



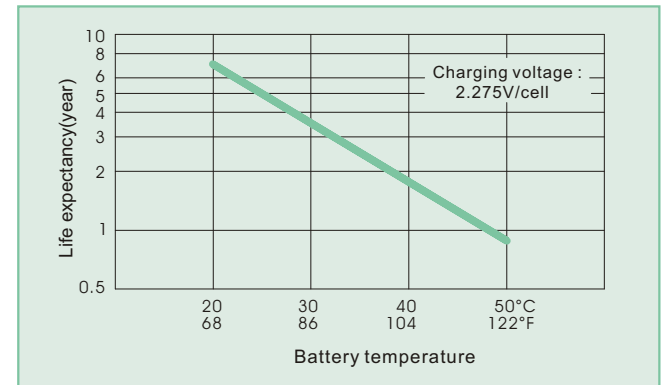
Battery Charging Characteristics



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	880	717	586	397	249.7	102.0	70.3	39.33	20.67
1.75V	988	777	612	412	257.2	104.1	71.4	39.92	21.00
1.70V	1082	804	631	421	261.8	105.0	71.8	40.08	21.08
1.65V	1130	824	646	427	264.8	105.7	72.0	40.25	21.17
1.60V	1168	841	658	432	267.6	106.4	72.3	40.25	21.17

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	80.1	64.7	52.3	33.9	21.00	8.50	5.83	3.25	1.67
1.75V	91.6	70.1	54.8	35.3	21.58	8.67	5.92	3.33	1.75
1.70V	100.3	72.6	56.4	36.1	22.00	8.75	6.00	3.33	1.75
1.65V	106.8	75.8	57.8	36.6	22.25	8.83	6.00	3.33	1.75
1.60V	112.4	78.7	58.8	36.9	22.50	8.83	6.00	3.33	1.75

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

Trial A/0 REV. Nov. 2012

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