

VRLA Rechargeable Battery

BC40-12 (BC40-12FR)

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

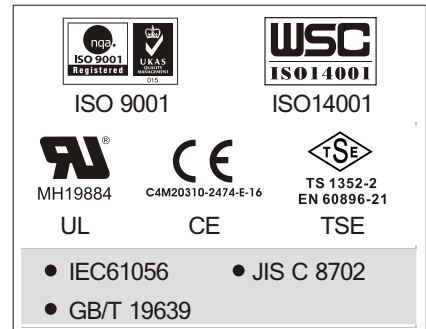
SPECIFICATIONS

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	12.2Kg(26.9lbs.)	
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	≤ 12mΩ (Fully Charged)	

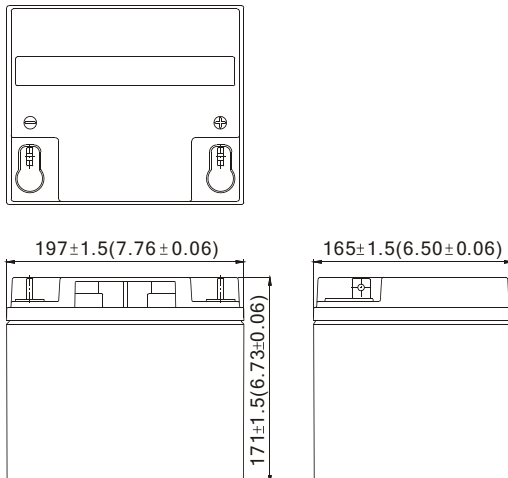


CONTAINER MATERIAL

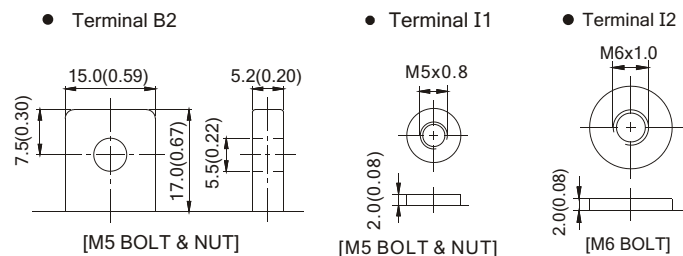
- BC40-12:
ABS: UL 94-HB (Dark gray color)
- BC40-12FR:
ABS: UL 94-V0 (Light gray color)



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)

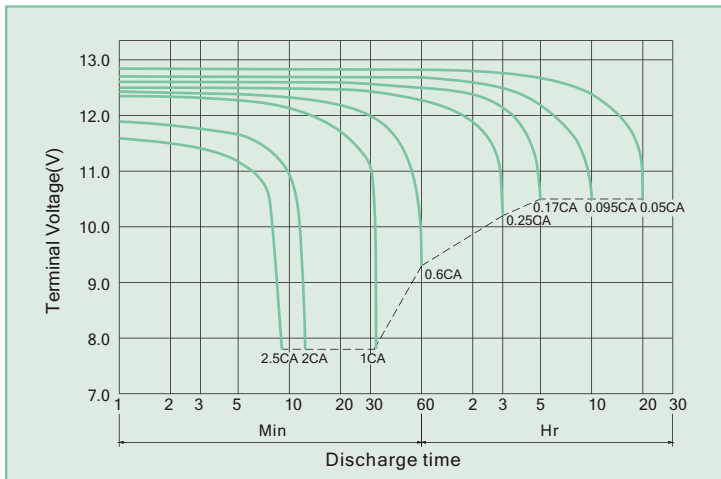


TERMINAL TYPE

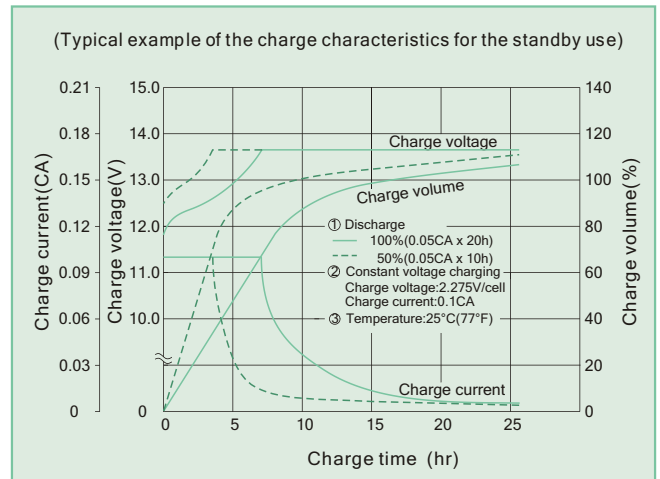


Terminal Hardware Initial Torque:
B2,I1(4.0Nm±5%),I2(5.5Nm±5%)

BC40-12 (BC40-12FR) discharge characteristics (25°C/77°F)



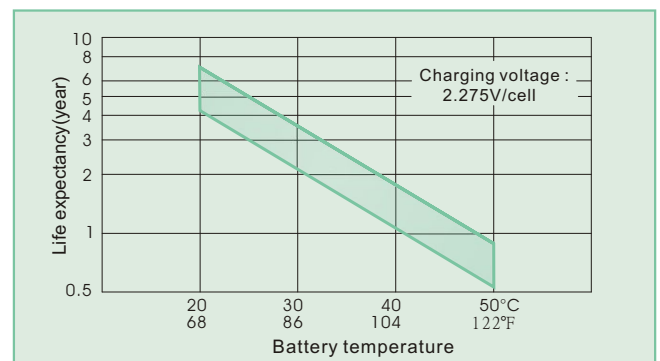
Battery Charging Characteristics



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	1005.3	819.7	669.2	453.3	285.3	116.6	80.4	45.0	23.6
1.75V	1129.2	887.8	699.8	470.9	293.9	119.0	81.6	45.6	24.0
1.70V	1236.1	918.4	721.0	481.5	299.1	120.0	82.0	45.8	24.1
1.65V	1291.8	941.8	738.0	488.3	302.7	120.8	82.3	46.0	24.2
1.60V	1334.6	960.9	752.4	493.2	305.8	121.6	82.6	46.0	24.2

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	91.5	73.9	59.8	38.8	24.0	9.7	6.7	3.7	1.9
1.75V	104.7	80.1	62.6	40.3	24.7	9.9	6.8	3.8	2.0
1.70V	114.6	83.0	64.5	41.2	25.1	10.0	6.9	3.8	2.0
1.65V	122.0	86.6	66.0	41.8	25.4	10.1	6.9	3.8	2.0
1.60V	128.5	89.9	67.2	42.2	25.7	10.1	6.9	3.8	2.0

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

SC(for Sader) Trial A/0 REV. Oct. 2010

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