

## VRLA Rechargeable Battery

# BC160-12 (BC160-12FR)

### 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

### APPLICATION

- UPS
- Golf-Carts
- Telecom

### SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (8.0A, 10.5V)	160 Ah
	10 Hour Rate (15.2A, 10.5V)	152 Ah
	5 Hour Rate (27.2A, 10.5V)	136 Ah
	1 Hour Rate (96.0A,9.3V)	96 Ah
Approx. Weight	45.0Kg(99.2lbs.)	
Terminals	B9 (Fitting M8 bolt & nut) I3 is optional	
Max. Discharge Current	800 A (5 sec.)	
Max. Charge Current	48 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	≤ 4mΩ (Fully Charged )	

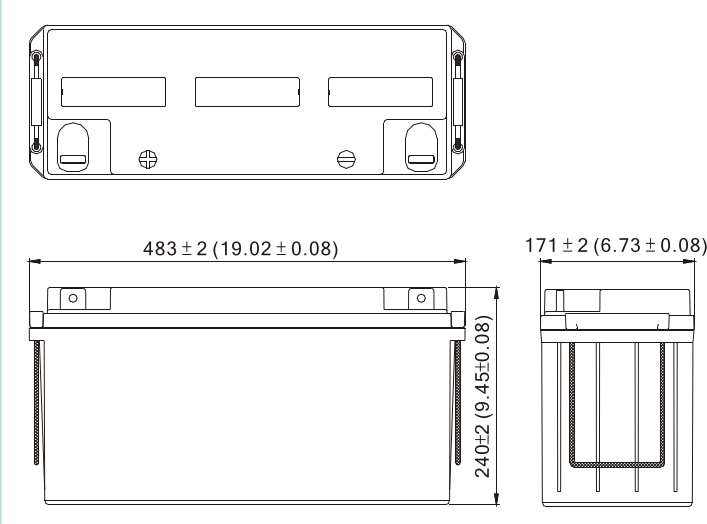


### CONTAINER MATERIAL

- BC160-12:  
ABS: UL 94-HB (Dark gray color)
- BC160-12FR:  
ABS: UL 94-V0 (Light gray color)

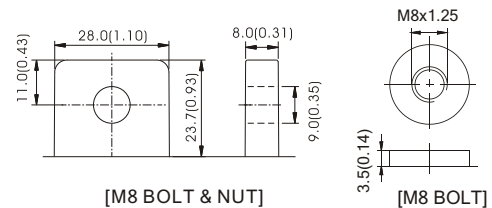
<p>ISO 9001</p>	<p>ISO 14001</p>
<p>UL</p>	<p>CE</p>
<p>TS 1352-2 EN 60896-21</p>	
<ul style="list-style-type: none"> <li>● IEC61056</li> <li>● JIS C 8702</li> <li>● GB/T 19639</li> </ul>	

OUTER DIMENSIONS mm(inch)	Length (L)	Width (W)	Container Height (H)	Total Height (TH)
	483±2.0(19.02±0.08)	171±2.0(6.73±0.08)	240±2.0(9.45±0.08)	240±2.0(9.45±0.08)



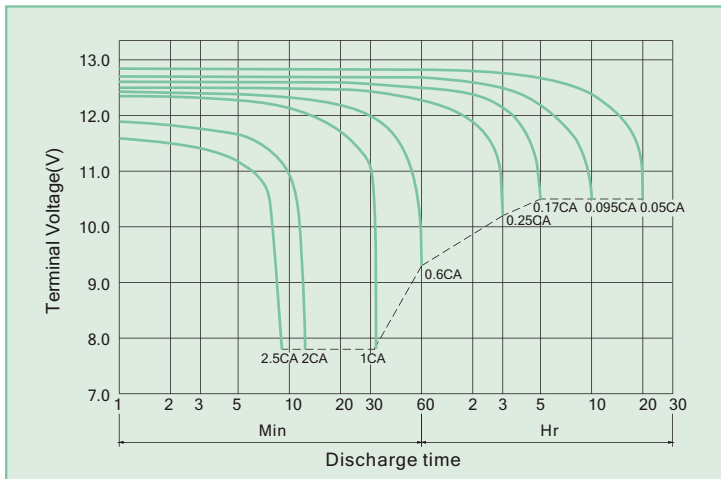
### TERMINAL TYPE

- Terminal B9
- Terminal I3

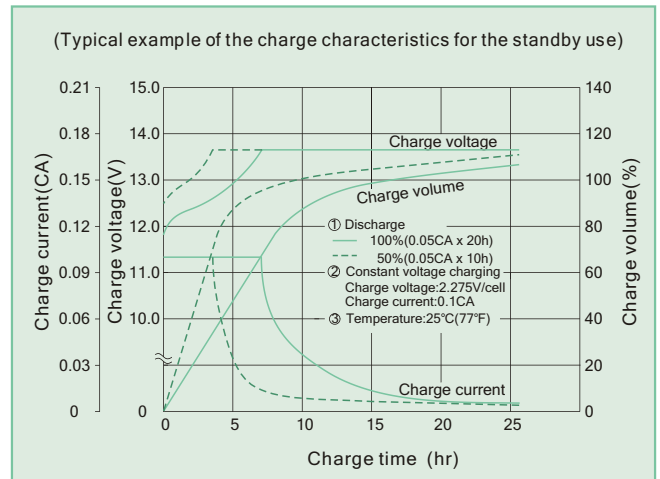


Terminal Hardware Initial Torque: B9,I3(10.0Nm±5%)

**BC160-12 (BC160-12FR) discharge characteristics (25°C/77°F)**



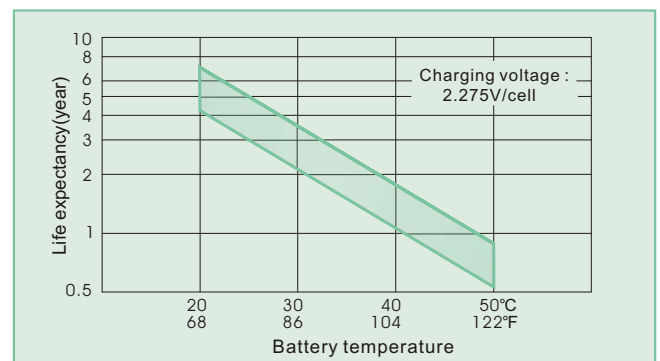
**Battery Charging Characteristics**



**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	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	2677.0	1813.4	1141.1	466.4	321.6	179.7	94.6
1.75V	2799.4	1883.4	1175.4	475.7	326.4	182.4	96.0
1.70V	2884.3	1925.9	1196.5	480.0	328.2	183.4	96.5
1.65V	2952.0	1953.3	1211.0	483.4	329.3	183.8	96.8
1.60V	3009.6	1973.0	1223.0	486.2	330.2	183.8	96.8

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

F.V. (V/cell) \ Discharge Time	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	239.2	155.2	95.8	38.9	26.9	15.0	7.8
1.75V	250.1	161.1	98.7	39.7	27.2	15.2	8.0
1.70V	257.9	165.0	100.6	40.0	27.4	15.4	8.0
1.65V	263.8	167.2	101.8	40.3	27.5	15.4	8.0
1.60V	269.1	168.8	102.7	40.5	27.5	15.4	8.0

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

To Sader Trial A/0 REV. Nov. 2010

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