

## VRLA Rechargeable Battery

# BC65-12 (BC65-12FR)

### FEATURES

- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Can be used in any orientation(excluding used inverted)
- 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 (3.25A, 10.5V)	65.0 Ah
	10 Hour Rate (6.18A, 10.5V)	61.8 Ah
	5 Hour Rate (11.05A, 10.5V)	55.3 Ah
	1 Hour Rate (39.00A, 9.3V)	39.0 Ah
Approx. Weight	20.0Kg(44.09lbs.)	
Terminals	B5 (Fitting M6 bolt & nut) I2 is optional	
Max. Discharge Current	650 A (5 sec.)	
Max. Charge Current	19.5 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	≤ 8mΩ (Fully Charged )	

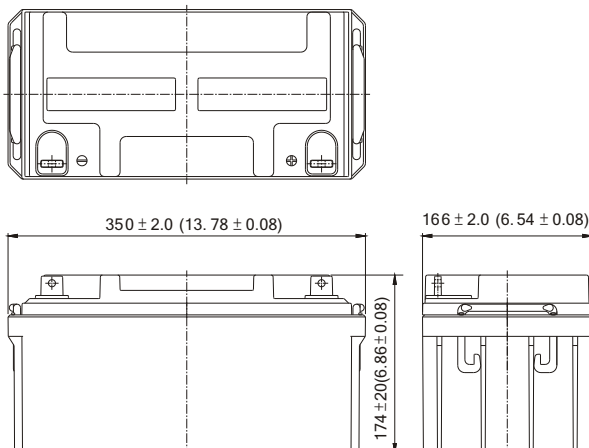
### CONTAINER MATERIAL

- BC65-12:  
ABS: UL 94-HB (Dark gray color)
- BC65-12FR:  
ABS: UL 94-V0 (Light gray color)

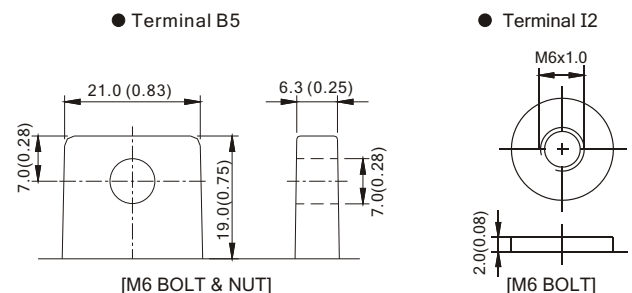
 ISO 9001	 ISO14001
 MH19884 UL	 C4M20310-2474-E-16 CE
<ul style="list-style-type: none"> <li>● IEC61056</li> <li>● GB/T 19639</li> </ul>	<ul style="list-style-type: none"> <li>● JIS C 8702</li> </ul>

### OUTER DIMENSIONS mm(Inch)

Length (L)	Width (W)	Container Height (H)	Total Height (TH)
350±2.0(13.78±0.08)	166±2.0(6.54±0.08)	174±2.0(6.85±0.08)	174±2.0(6.85±0.08)

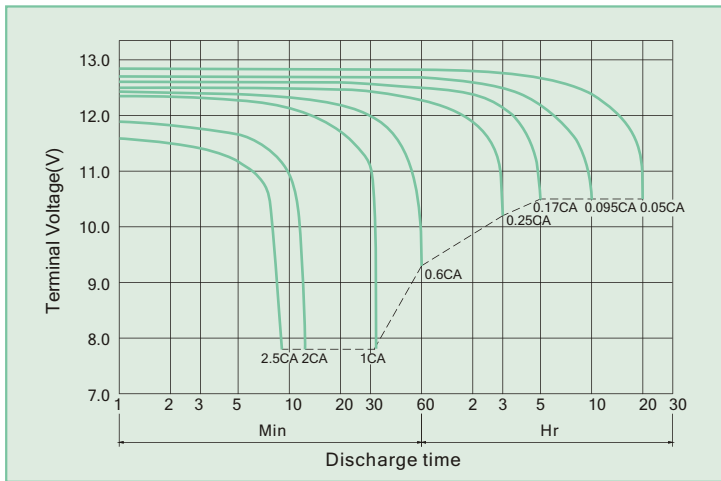


### TERMINAL TYPE

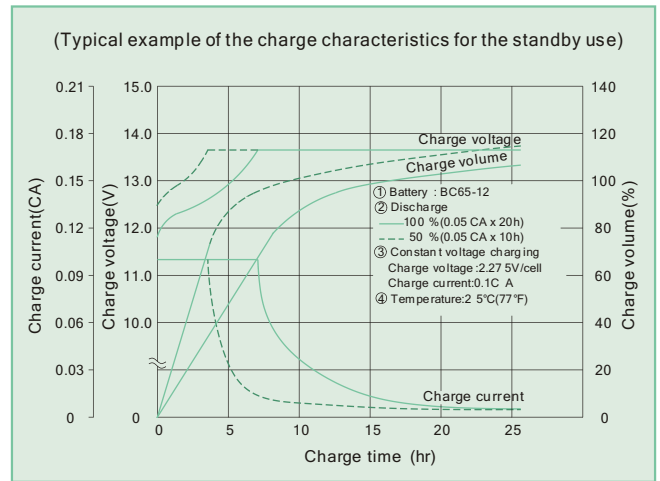


Terminal Hardware Initial Torque: B5,I2(5.5Nm±5%)

**BC65-12 (BC65-12FR) discharge characteristics (25°C/77°F)**



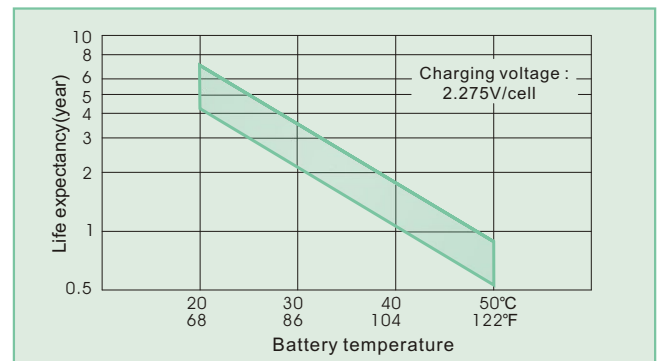
**Battery Charging Characteristics**



**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	1633.7	1332.1	1087.5	736.7	463.6	189.5	130.7	73.0	38.4
1.75V	1835.9	1442.6	1137.2	765.1	477.5	193.3	132.6	74.1	39.0
1.70V	2008.6	1492.3	1171.8	782.4	486.1	195.0	133.3	74.5	39.2
1.65V	2099.2	1528.2	1199.3	793.5	492.0	196.4	133.8	74.7	39.3
1.60V	2168.7	1561.4	1222.7	801.5	496.9	197.5	134.2	74.7	39.3

**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	148.7	120.1	97.2	63.1	38.9	15.8	10.9	6.1	3.2
1.75V	170.1	130.2	101.6	65.5	40.1	16.1	11.1	6.2	3.3
1.70V	186.2	134.8	104.8	67.0	40.9	16.3	11.1	6.2	3.3
1.65V	198.2	140.6	107.2	67.9	41.3	16.4	11.2	6.2	3.3
1.60V	208.7	146.1	109.3	68.6	41.7	16.5	11.2	6.2	3.3

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

Trial A/1 REV. July. 2010

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