

VRLA Rechargeable Battery

BC65-12

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
- Its design life is up to 6 years at 25°C in floating application

APPLICATION

- UPS
- TELECOM

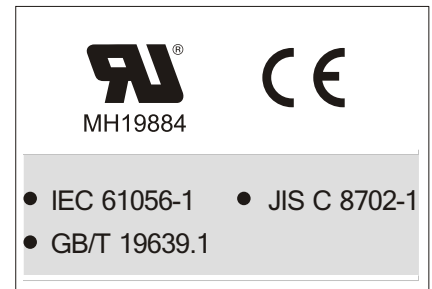


SPECIFICATIONS

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)	

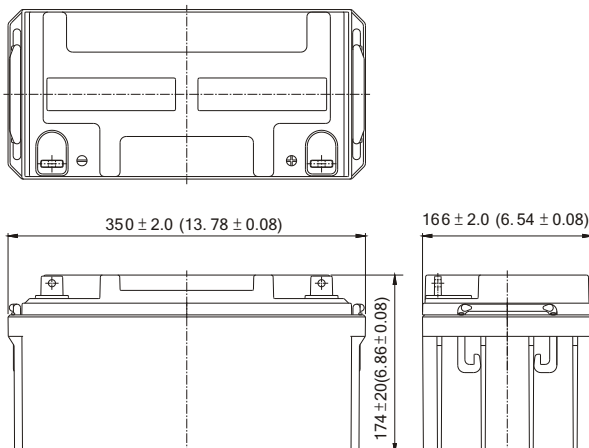
CONTAINER MATERIAL

- Standard: ABS (UL 94-HB)
Model Name: BC65-12
- Optional: Flame Retardant ABS (UL 94-V0)
Model Name: BC65-12FR

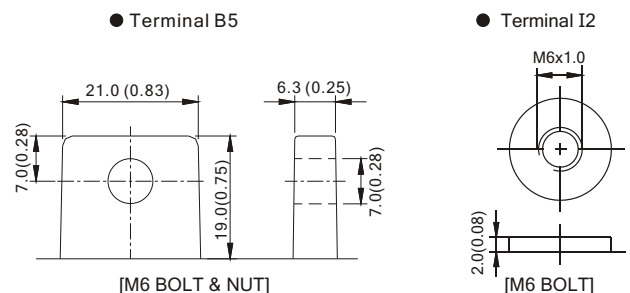


OUTER DIMENSIONS mm(Inch)

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)

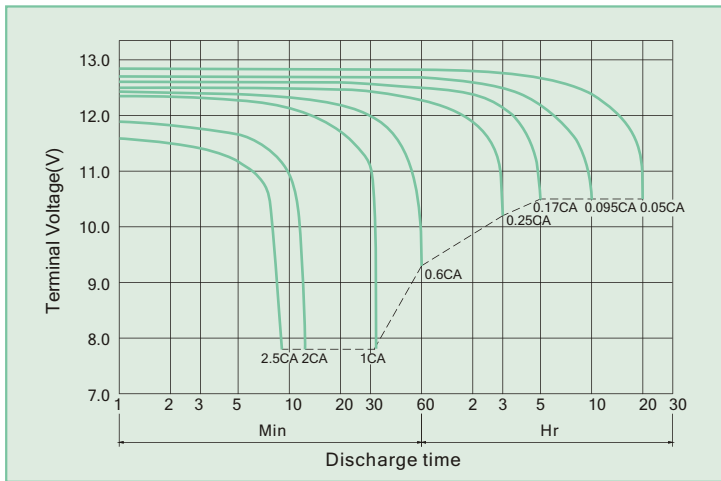


TERMINAL TYPE

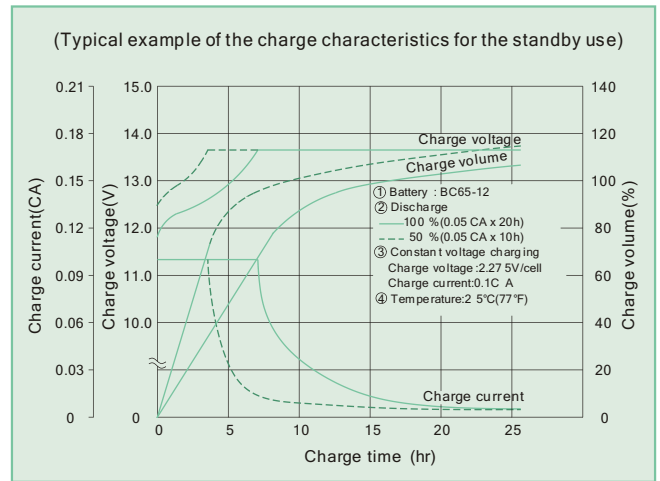


Terminal Hardware Initial Torque: B5,I2(5.5Nm±5%)

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



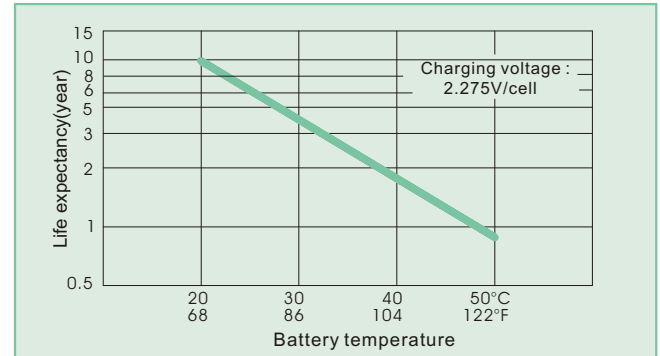
Battery Charging Characteristics



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

Discharge F.V. \ Time	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
10.8V	1633.7	1332.1	1087.5	736.7	463.6	189.5	130.7	73.0	38.4
10.5V	1835.9	1442.6	1137.2	765.1	477.5	193.3	132.6	74.1	39.0
10.2V	2008.6	1492.3	1171.8	782.4	486.1	195.0	133.3	74.5	39.2
9.9V	2099.2	1528.2	1199.3	793.5	492.0	196.4	133.8	74.7	39.3
9.6V	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

Discharge F.V. \ Time	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
10.8V	148.7	120.1	97.2	63.1	38.9	15.8	10.9	6.1	3.2
10.5V	170.1	130.2	101.6	65.5	40.1	16.1	11.1	6.2	3.3
10.2V	186.2	134.8	104.8	67.0	40.9	16.3	11.1	6.2	3.3
9.9V	198.2	140.6	107.2	67.9	41.3	16.4	11.2	6.2	3.3
9.6V	208.7	146.1	109.3	68.6	41.7	16.5	11.2	6.2	3.3

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

For operation, please refer to the instruction from technical manual.

SC(for unitek) A/0 REV. Mar. 2018

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