



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



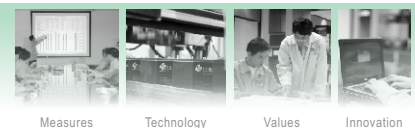
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## VRLA Rechargeable Battery

# BC75-12 (BC75-12FR)

### 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
- Its design life is up to 5 years in floating application

### APPLICATION

- UPS
- Golf-Carts
- TELECOM



### SPECIFICATIONS

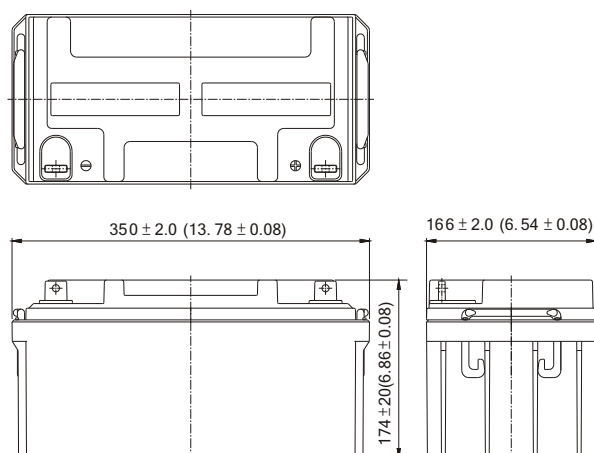
Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (3.75A, 10.5V)	75.0 Ah
	10 Hour Rate (7.13A, 10.5V)	71.3 Ah
	5 Hour Rate (12.75A, 10.5V)	63.8 Ah
	1 Hour Rate (45.00A, 9.3V)	45.0 Ah
Approx. Weight	20.2Kg(44.53lbs.)	
Terminals	B5 (Fitting M6 bolt & nut) I2 is optional	
Max. Discharge Current	750 A (5 sec.)	
Max. Charge Current	22.5 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

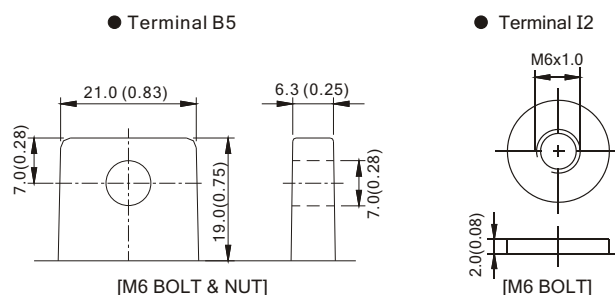
- BC75-12:  
ABS: UL 94-HB (Dark gray color)
- BC75-12FR:  
ABS: UL 94-V0 (Light gray color)

 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)

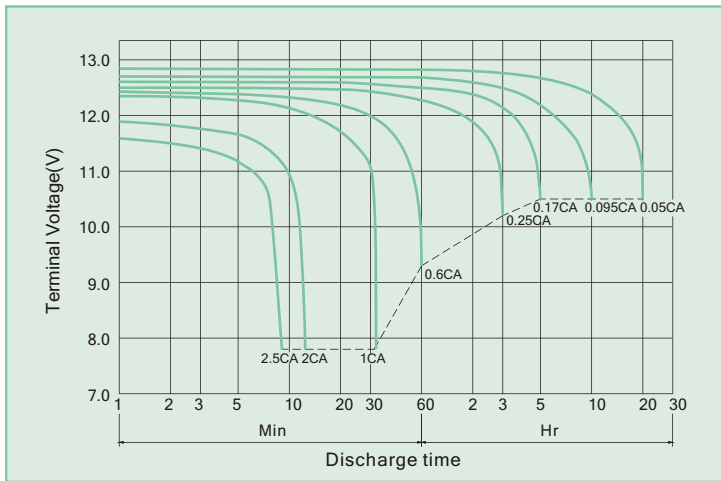


### TERMINAL TYPE

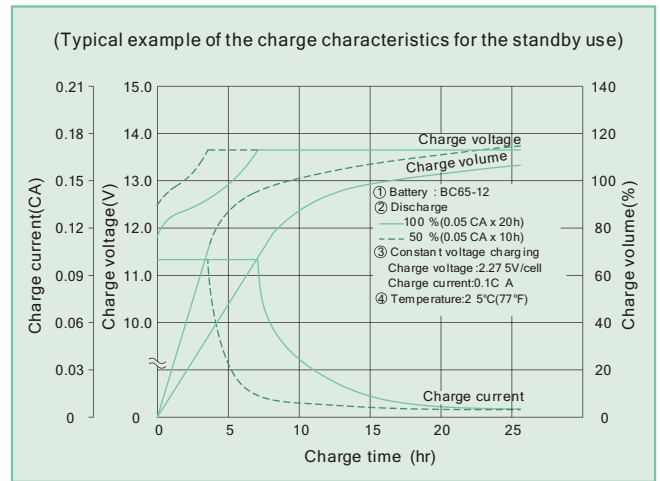


Terminal Hardware Initial Torque: B5,I2(5.5Nm±5%)

### BC75-12 (BC75-12FR) discharge characteristics (25°C/77°F)



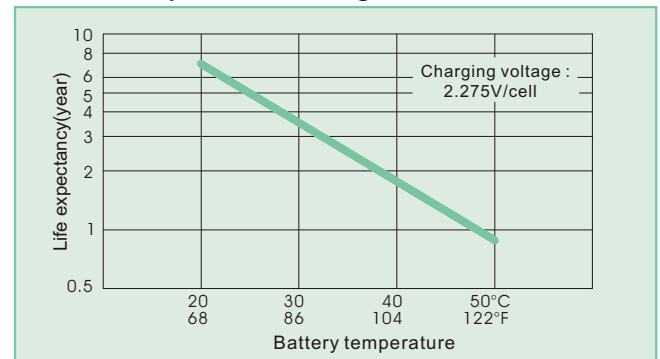
### Battery Charging Characteristics



### 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	1885.0	1537.0	1254.8	850.0	534.9	218.7	150.75	84.23	44.33
1.75V	2118.3	1664.5	1312.2	882.8	551.0	223.0	153.00	85.50	45.00
1.70V	2317.6	1721.9	1352.1	902.8	560.9	225.0	153.83	85.95	45.23
1.65V	2422.2	1763.3	1383.8	915.6	567.7	226.6	154.35	86.18	45.38
1.60V	2502.3	1801.6	1410.8	924.8	573.3	227.9	154.80	86.18	45.38

### 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	171.6	138.6	112.2	72.8	44.9	18.2	12.60	7.05	3.68
1.75V	196.3	150.2	117.2	75.6	46.3	18.6	12.75	7.13	3.75
1.70V	214.8	155.5	120.9	77.3	47.2	18.8	12.83	7.20	3.75
1.65V	228.7	162.2	123.7	78.3	47.7	18.9	12.90	7.20	3.75
1.60V	240.8	168.6	126.1	79.2	48.1	19.0	12.90	7.20	3.75

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

Trial A/0 REV. May, 2011

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