VRLA Rechargeable Battery

BC28-12 (BC28-12FR)

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

APPLICATION

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

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (1400mA, 10.5V)	28.0 Ah
	10 Hour Rate (2660mA, 10.5V)	26.6 Ah
	5 Hour Rate (4760mA, 10.5V)	23.8 Ah
	1 Hour Rate (16800mA,9.3V)	16.8 Ah
Approx. Weight	7900g(17.42lbs.)	
Terminals	B1 (Fitting M5 bolt & nut) , T2 and I1 are optional	
Max. Discharge Current	420 A (5 sec.)	
Max. Charge Current	8.4 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	≦14mΩ (Fully Charged)	

CONTAINER MATERIAL

- BC28-12:
  ABS: UL 94-HB (Dark gray color)
- BC28-12FR:
  ABS: UL 94-V0 (Light gray color)

ISO 9001 | ISO14001

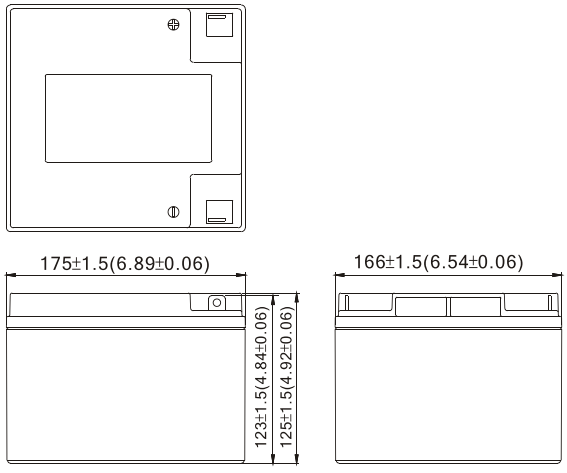
MH19884 | C4M20310-2474-E-16

UL | CE

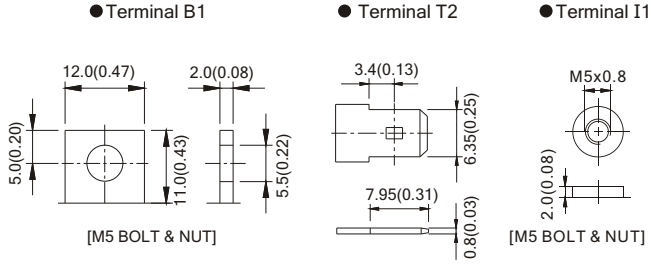
- IEC61056
- JIS C 8702
- GB/T 19639

OUTER DIMENSIONS mm(inch)

Length (L)	Width (W)	Container Height (H)	Total Height (TH)
175±1.5(6.89±0.06)	166±1.5(6.54±0.06)	123±1.5(4.84±0.06)	125±1.5(4.92±0.06)

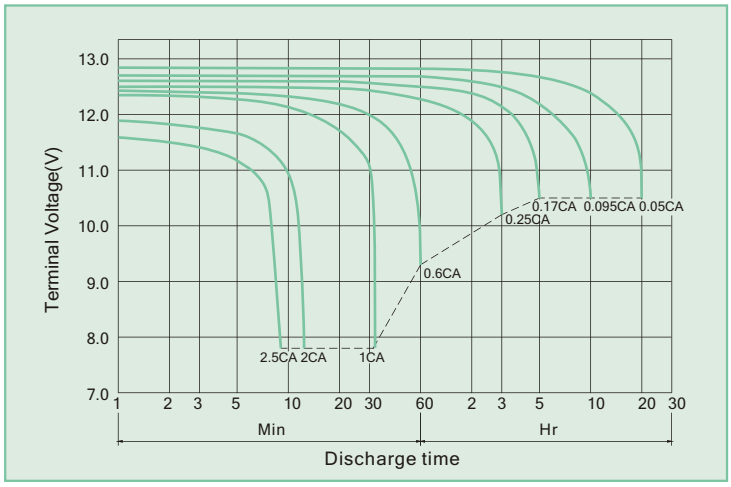


TERMINAL TYPE

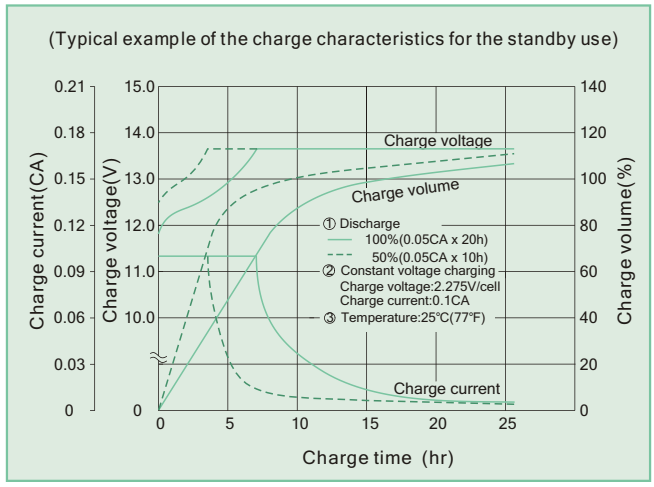


Terminal Hardware Initial Torque:
B1(2.5Nm±5%),I1(4.0Nm±5%)

BC28-12 (BC28-12FR) discharge characteristics (25°C/77°F)



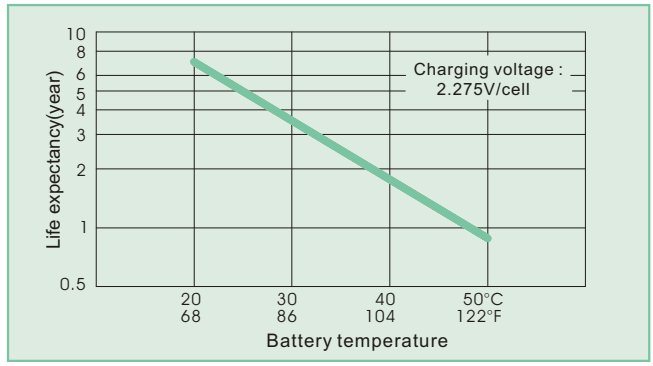
Battery Charging Characteristics



Charging Procedure

Application	Charging method	Charging Voltage at 25℃ (V/cell)	Temperature compensation coefficient of charging voltage (mV/℃/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	703.7	573.8	468.5	317.3	199.7	81.60	56.27	31.47	16.53
1.75V	790.5	621.5	489.9	329.6	205.7	83.27	57.13	31.93	16.80
1.70V	865.3	642.9	504.7	337.1	209.4	84.00	57.40	32.07	16.87
1.65V	904.3	659.3	516.6	341.8	211.9	84.53	57.60	32.20	16.93
1.60V	934.2	672.6	526.7	345.3	214.1	85.13	57.80	32.20	16.93

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	64.1	51.7	41.9	27.1	16.8	6.80	4.67	2.60	1.33
1.75V	73.3	56.1	43.8	28.2	17.3	6.93	4.73	2.67	1.40
1.70V	80.2	58.1	45.1	28.9	17.6	7.00	4.80	2.67	1.40
1.65V	85.4	60.6	46.2	29.3	17.8	7.07	4.80	2.67	1.40
1.60V	89.9	62.9	47.1	29.5	18.0	7.07	4.80	2.67	1.40

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

A/1 REV. Dec. 2010

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