

VRLA Rechargeable Battery

BC230-12 (BC230-12FR)

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
- Telecom



SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (11.50A, 10.5V)	230.0 Ah
	10 Hour Rate (21.85A, 10.5V)	218.5 Ah
	5 Hour Rate (39.10A, 10.5V)	195.5 Ah
	1 Hour Rate (138.00A, 9.3V)	138.0 Ah
Approx. Weight	62.0Kg(136.7lbs.)	
Terminals	B9 (Fitting M8 bolt & nut) I3 is optional	
Max. Discharge Current	800 A (5 sec.)	
Max. Charge Current	69 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	≤ 3mΩ (Fully Charged)	

CONTAINER MATERIAL

- BC230-12:
ABS: UL 94-HB (Dark gray color)
- BC230-12FR:
ABS: UL 94-V0 (Light gray color)

 ISO 9001	 UKAS	 ISO 14001
 MH19884 UL	 C4M20310-2474-E-16 CE	 TS 1352-2 EN 60896-21
● IEC61056	● JIS C 8702	● GB/T 19639

OUTER DIMENSIONS mm(inch)	Length (L)	Width (W)	Container Height (H)	Total Height (TH)
	522±2.0(20.55±0.08)	240±2.0(9.45±0.08)	216±2.0(8.50±0.08)	B9: 240±2.0(9.45±0.08) I3: 220±2.0(8.66±0.08)

TERMINAL TYPE

● Terminal B9

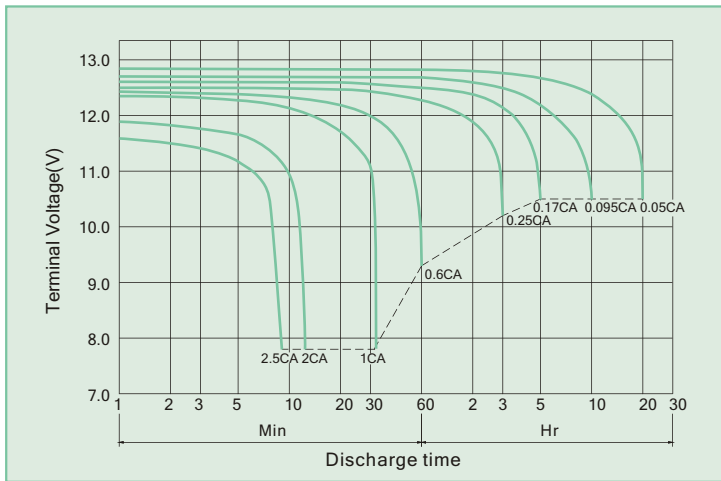
[M8 BOLT & NUT]

● Terminal I3

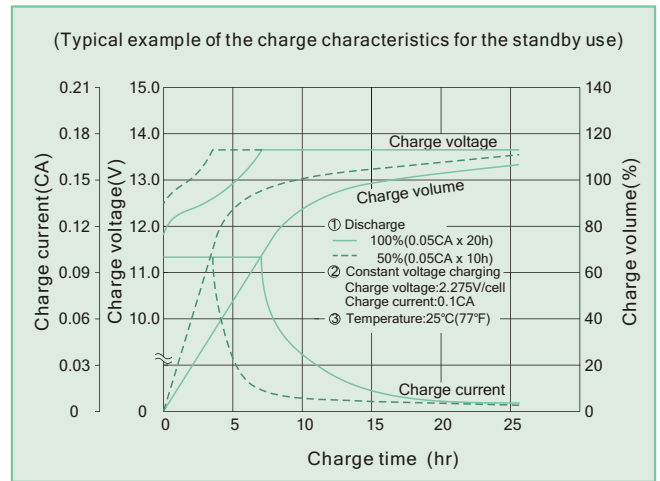
[M8 BOLT]

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

BC230-12 (BC230-12FR) discharge characteristics (25°C/77°F)



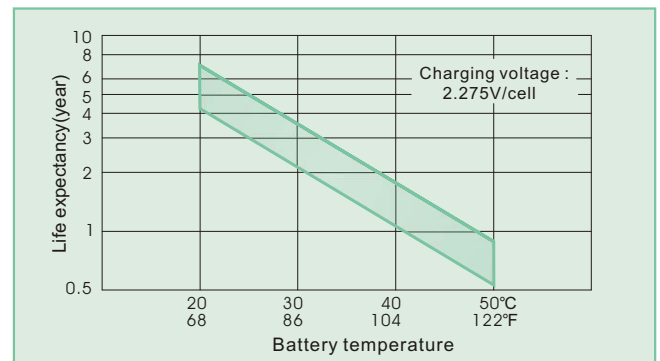
Battery Charging Characteristics



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	3848.1	2606.8	1640.4	670.5	462.3	258.3	135.9
1.75V	4024.1	2707.3	1689.6	683.8	469.2	262.2	138.0
1.70V	4146.2	2768.5	1719.9	690.0	471.7	263.6	138.7
1.65V	4243.5	2807.8	1740.9	694.8	473.3	264.3	139.2
1.60V	4326.3	2836.1	1758.1	699.0	474.7	264.3	139.2

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	343.9	223.1	137.8	55.9	38.6	21.6	11.3
1.75V	359.5	231.6	141.9	57.0	39.1	21.9	11.5
1.70V	370.8	237.1	144.7	57.5	39.3	22.1	11.5
1.65V	379.3	240.4	146.3	58.0	39.6	22.1	11.5
1.60V	386.9	242.7	147.7	58.2	39.6	22.1	11.5

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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