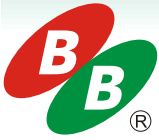




Measures Technology Values Innovation



VRLA Rechargeable Battery

BP12-12 (BP12-12FR)

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 8 years in floating application

APPLICATION

- UPS
- Laboratory Equipment
- Power Packs
- Toy-Cars
- Fishing Lights



SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (600mA, 10.5V)	12.0 Ah
	10 Hour Rate (1140mA, 10.5V)	11.4 Ah
	5 Hour Rate (2040mA, 10.5V)	10.2 Ah
	1 Hour Rate (7200mA, 9.30V)	7.20 Ah
Approx. Weight	3940g(8.69lbs.)	
Terminals	T2 (Faston Tab 250) T1 is optional	
Max. Discharge Current	180 A (5 sec.)	
Max. Charge Current	3.60 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	≤18mΩ (Fully Charged)	

CONTAINER MATERIAL

- BP12-12:
ABS: UL 94-HB (Dark gray color)
- BP12-12FR:
ABS: UL 94-V0 (Light gray color)

 ISO 9001	 ISO14001
 MH19884 UL	 C4M20310-2474-E-16 CE
● IEC 61056-1	● JIS C 8702-1
● GB/T 19639.1	● VdS G102106

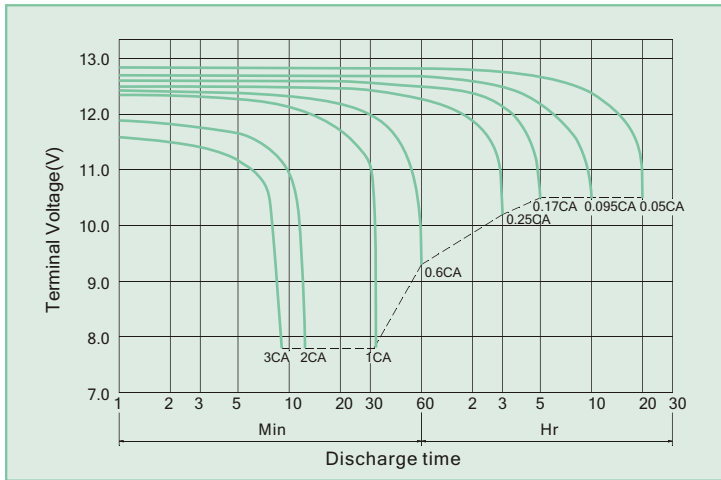
OUTER DIMENSIONS mm(inch)	Length (L)	Width (W)	Container Height (H)	Total Height (TH)
	151±1.5(5.94±0.06)	98±1.5(3.86±0.06)	94±1.5(3.70±0.06)	98±2.0(3.86±0.08)

TERMINAL TYPE

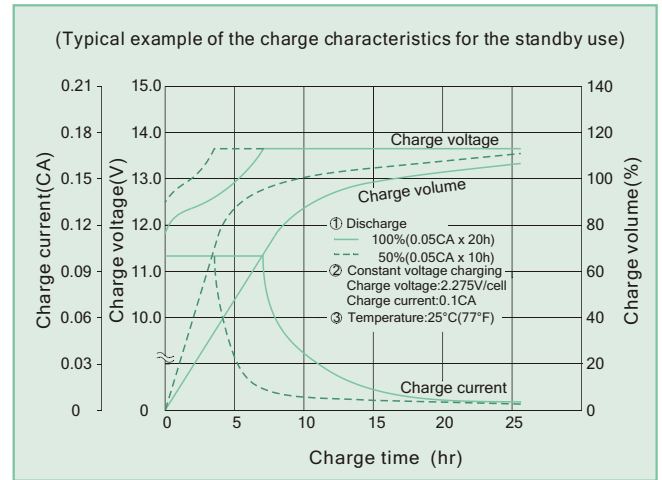
● Terminal T1

● Terminal T2

BP12-12 (BP12-12FR) discharge characteristics (25°C /77°F)



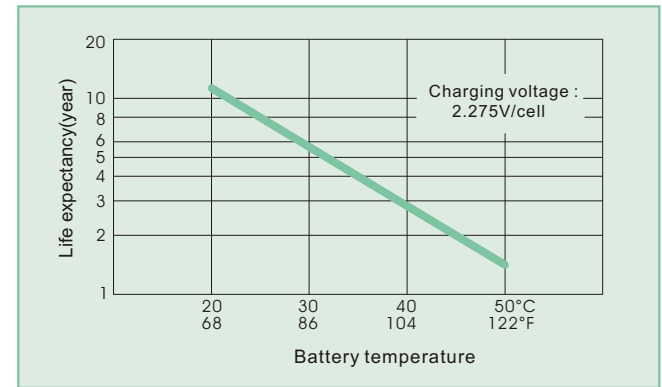
Battery Charging Characteristics



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	433.9	319.4	256.0	152.3	87.3	35.0	24.1	13.48	7.09
1.75V	502.2	346.0	267.7	158.1	90.0	35.7	24.5	13.68	7.20
1.70V	533.6	358.5	276.0	161.7	91.6	36.0	24.6	13.75	7.24
1.65V	557.5	367.1	282.4	164.0	92.7	36.3	24.7	13.79	7.26
1.60V	576.0	374.4	288.0	165.6	93.6	36.5	24.8	13.79	7.26

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	39.09	28.12	22.26	12.91	7.34	2.91	2.01	1.123	0.591
1.75V	46.07	30.46	23.28	13.40	7.56	2.97	2.04	1.140	0.600
1.70V	48.95	31.55	24.00	13.70	7.70	3.00	2.05	1.146	0.603
1.65V	51.15	32.31	24.55	13.89	7.79	3.02	2.06	1.149	0.605
1.60V	52.84	32.96	25.04	14.03	7.87	3.04	2.06	1.149	0.605

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

A/3 REV. Dec. 2010

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