



VRLA Rechargeable Battery

EP7-12



FEATURES

- Absorbent Glass Mat technology for efficient gas recombination
- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Can be used in any orientation(excluding used inverted)
- The battery is designed for heavy duty cyclic application
- Its design life is approx.400 cycles at 100% discharge in cycle service at 77°F/25°C

APPLICATION

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

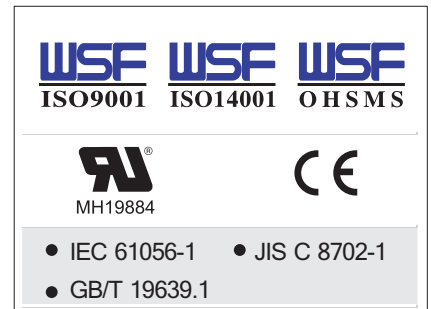
SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	20 Hour Rate (0.35A, 10.5V)	7.00 Ah
	10 Hour Rate (0.665A, 10.5V)	6.65 Ah
	5 Hour Rate (1.19A, 10.5V)	5.95 Ah
	30 Min Rate (7.00A, 7.8V)	3.50 Ah
Approx. Weight	2600g(5.73lbs.)	
Terminals	T2(Faston Tab 250) T1 is optional	
Max. Discharge Current	105 A (5 sec.)	
Max. Charge Current	2.1 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	≤25mΩ (Fully Charged)	

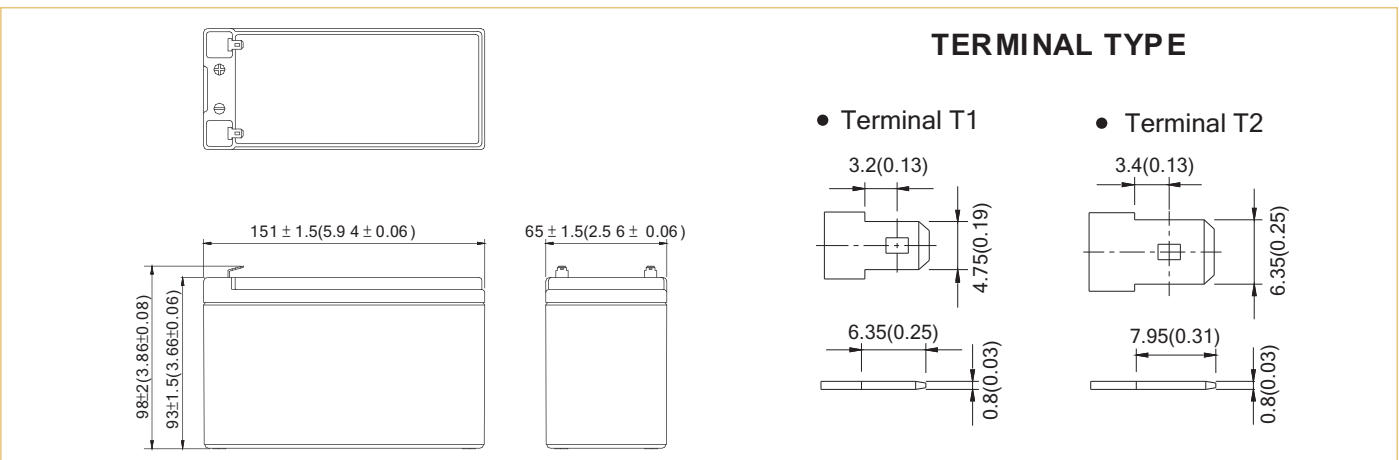


CONTAINER MATERIAL

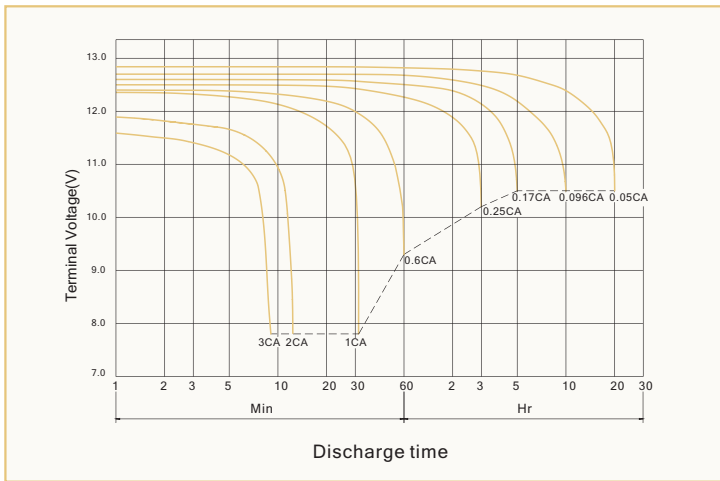
- Standard: ABS(UL 94-HB)
Model Name: EP7-12
- Optional: Flame Retardant ABS (UL 94-V0)
Model Name: EP7-12FR



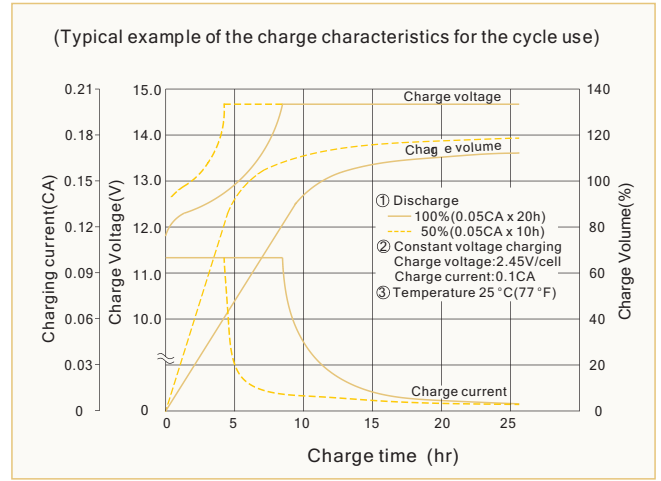
OUTER DIMENSIONS mm(inch)	Length (L)	Width (W)	Container Height (H)	Total Height (TH)
	151±1.5(5.94±0.06)	65±1.5(2.56±0.06)	93±1.5(3.66±0.06)	98±2.0(3.86±0.08)



EP7-12 (EP7-12FR) discharge characteristics (25°C/77°F)



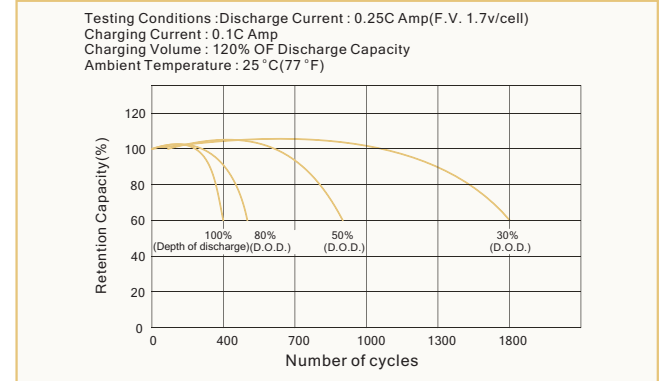
Battery Charging Characteristics



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) (32°-104°F)
					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					16	10	

Battery Life Characteristics of Cyclic Use



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	228.0	171.4	138.8	83.50	48.40	20.40	14.10	7.86	4.11
1.75V	264.0	185.7	145.3	86.70	49.80	20.80	14.30	7.98	4.20
1.70V	280.0	192.4	149.7	88.60	50.70	21.00	14.40	8.02	4.22
1.65V	293.0	197.0	153.2	89.90	51.40	21.20	14.50	8.04	4.23
1.60V	302.0	200.9	156.2	90.80	51.90	21.30	14.50	8.04	4.23

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	20.54	15.09	12.07	7.076	4.067	1.700	1.175	0.655	0.343
1.75V	24.22	16.35	12.63	7.347	4.185	1.733	1.192	0.665	0.350
1.70V	25.69	16.94	13.02	7.508	4.261	1.750	1.200	0.668	0.352
1.65V	26.88	17.34	13.32	7.619	4.319	1.767	1.208	0.670	0.353
1.60V	27.71	17.68	13.58	7.695	4.361	1.775	1.208	0.670	0.353

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

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

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USA:
B&B BATTERY(USA) INC.
6415 RANDOLPH ST.COMMERCE,CA,90040 U.S.A.
TEL:1-323-278-1900.1-800-278-8599
FAX:1-323-278-1268
E-Mail:sales@bb-battery.com

CHINA FACTORY:
B.B. TECH(CHANGSHA) CO., LTD.
No.57 DongsiRoad, Changsha National Economic & Technical Development Zone, Changsha, Hunan PRC
TEL:86-731-82955888
FAX:86-731-82955111
E-Mail:maggy@bb-battery.com

EUROPE:
B&B BATTERY(EUROPE) B.V.
SUITE 8, HAAKSBERGWEG 33, 1101
BP AMSTERDAM,THE NETHERLANDS
TEL: 31-30-320-0190
MOBILE: 852-9128-2711
E-Mail: dliu@bb-battery.com

HONG KONG:
B&B BATTERY(Hong Kong) Co.
TEL:852-2311-4918
FAX:852-2739-1182
E-Mail:bbhk@hkstar.com

JAPAN:
B&B BATTERY(JAPAN) CO., LTD.
1375-11 NARAHARA-MACHI,HACHIOJI,
TOKYO 193-0803,JAPAN.
TEL:81-426-25-6375
FAX:81-426-25-6375
E-Mail:miyata@bb-battery.com

TAIWAN:
B.B. BATTERY(TAIWAN) CO., LTD.
TEL:886-6-502-5150
FAX:886-6-589-8087
E-Mail:kevinlin@bb-battery.com