



# VRLA Rechargeable Battery

## SHR7-12



### FEATURES

- 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 high rate usage
- Absorbent Glass Mat technology for efficient gas recombination
- The power density at 2 min~15min discharging rate is 50% higher than BP series

### APPLICATION

- UPS
- Fishing Lights
- Power Packs
- Emergency Lights
- Toy-Cars



### SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	15 Min Rate (27W, 1.60V/Cell)
Approx. Weight	1840g(4.06lbs.)
Terminals	T2 (Faston Tab 250) T1 is optional
Internal Resistance	≤20mΩ (Fully Charged )
Max. Discharge Current	90 A (5 sec.)
Max. Charge Current	1.80 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)
Container Material	Standard: ABS( UL 94-HB) SHR7-12 Optional: Flame Retardant ABS(UL 94-V0) SHR7-12FR

- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1

DIMENSION(mm/inch)	OUTER DIMENSIONS	TERMINAL TYPE
<b>Length</b> 90±1.5 (3.54±0.06)		
<b>Width</b> 70±1.5 (2.76±0.06)		
<b>Container Height</b> 102±1.5 (4.02±0.06)		
<b>Total Height</b> 106±2.0 (4.17±0.08)		

### Constant power discharge characteristics at 25 °C/77 °F Unit: W

F.V. (V/cell)	Discharge Time	2 Min	3 Min	5 Min	10 Min	15 Min	20 Min	30 Min	40 Min	50 Min	60 Min	120 Min
1.80V		484	408	307	196	153	119	88.4	68.7	58.3	51.4	27.5
1.75V		519	438	330	208	157	122	90.4	70.6	59.9	52.1	27.9
1.70V		545	459	343	212	159	124	91.3	71.4	60.4	52.4	28.1
1.67V		557	473	355	217	161	125	92.1	72.2	60.9	52.6	28.3
1.60V		568	486	368	221	162	126	92.9	73.0	61.3	52.8	28.5
1.50V		579	496	372	224	163	127	93.7	73.8	62.0	53.0	28.7

### Constant current discharge characteristics at 25 °C/77 °F Unit: A

F.V. (V/cell)	Discharge Time	2 Min	3 Min	5 Min	10 Min	15 Min	20 Min	30 Min	40 Min	50 Min	60 Min	120 Min
1.80V		44.5	37.4	27.6	17.1	13.2	10.17	7.50	5.83	4.91	4.31	2.29
1.75V		47.9	40.4	29.8	18.2	13.5	10.46	7.71	6.00	5.05	4.39	2.33
1.70V		50.5	42.4	31.0	18.7	13.7	10.62	7.78	6.07	5.09	4.41	2.34
1.67V		51.6	43.7	32.2	19.2	13.9	10.74	7.86	6.15	5.14	4.43	2.36
1.60V		52.7	44.9	33.4	19.5	14.1	10.85	7.93	6.22	5.18	4.45	2.38
1.50V		53.8	45.9	33.9	19.8	14.3	10.94	8.03	6.30	5.25	4.48	2.40

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

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

A/0 REV. Apr. 2014

Powered by B.B. Battery Co., Ltd.