



# VRLA Rechargeable Battery

# SH4.5-12



## FEATURES

- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Low self-discharge rate, lower than 3% capacity loss per month
- Can be used in any orientation(excluding used inverted)
- The battery is designed for high rate usage

## APPLICATION

- UPS
- Toy-Cars
- Fans
- Electronic Doorbells



## SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	4.28Ah @ 10 hour rate F.V.(1.75V/cell)
Approx. Weight	1530g(3.37lbs.)
Terminals	T1 (Faston Tab 187) T2 is optional
Internal Resistance	≤42mΩ (Fully Charged )
Max. Discharge Current	67.5 A (5 sec.)
Max. Charge Current	1.35 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) SH4.5-12 Optional: Flame Retardant ABS(UL 94-V0) SH4.5-12FR

- IEC61056-1
- 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	5 Min	10 Min	15 Min	30 Min	1 Hr	3 Hr	5 Hr	10 Hr	20 Hr
1.80V	182.6	122.7	92.0	54.4	29.75	13.26	8.96	4.99	2.66
1.70V	194.2	130.6	98.3	56.8	30.49	13.45	9.18	5.14	2.70
1.60V	208.4	134.9	101.7	57.2	31.45	13.50	9.23	5.15	2.71
1.50V	217.2	138.5	104.8	58.4	32.13	13.62	9.26	5.16	2.72
1.40V	223.9	140.3	107.5	59.2	32.37	13.67	9.29	5.17	2.73
1.30V	224.1	141.2	108.0	59.5	32.52	13.68	9.30	5.17	2.73

### 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	16.45	10.80	8.00	4.61	2.50	1.105	0.747	0.416	0.222
1.70V	17.81	11.50	8.55	4.81	2.56	1.121	0.765	0.428	0.225
1.60V	19.12	11.88	8.84	4.85	2.64	1.125	0.769	0.429	0.226
1.50V	19.93	12.19	9.11	4.95	2.70	1.135	0.772	0.430	0.227
1.40V	20.54	12.42	9.35	5.02	2.72	1.139	0.774	0.431	0.228
1.30V	20.56	12.43	9.39	5.04	2.73	1.140	0.775	0.431	0.228

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