



# VRLA Rechargeable Battery

## SH4.5-12L



Measures Technology Values Innovation

### 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

### APPLICATIONS

- UPS
- Fans
- Electronic Doorbells
- Toy-Cars



### SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	4.28Ah @ 10 hour rate F.V.(1.75V/cell)
Approx. Weight	1630g(3.59lbs.)
Terminals	T1 (Faston Tab 187) T2 is optional
Internal Resistance	≤30mΩ (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( UL94 HB) SH4.5-12L Optional: Flame Retardant ABS(UL94 V-0) SH4.5-12LFR

**UL**  
MH19884

**CE**  
C4M20310-2474-E-16

- IEC61056-1
- JIS C 8702-1
- GB/T 19639.1

DIMENSION(mm/inch)	OUTER DIMENSIONS	TERMINAL TYPE
<ul style="list-style-type: none"> <li>■ Length 151±1.5 (5.94±0.06)</li> <li>■ Width 51±1.5 (2.01±0.06)</li> <li>■ Container Height 94±1.5 (3.70±0.06)</li> <li>■ Total Height 100±2.0 (3.94±0.08)</li> </ul>		<ul style="list-style-type: none"> <li>● Terminal T1  </li> <li>● Terminal T2  </li> </ul>

**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		192.4	132.5	96.5	55.5	32.6	13.26	8.96	4.99	2.66
1.70V		214.5	136.8	98.3	58.3	33.1	13.45	9.18	5.14	2.70
1.60V		221.6	140.6	101.2	58.8	33.4	13.50	9.23	5.15	2.71
1.50V		228.9	142.1	104.8	59.2	33.7	13.62	9.26	5.16	2.72
1.40V		235.9	142.5	107.5	59.5	33.9	13.67	9.29	5.17	2.73
1.30V		236.4	142.8	108.0	59.6	34.1	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		17.34	11.66	8.39	4.70	2.67	1.105	0.747	0.416	0.222
1.70V		19.68	12.04	8.55	4.94	2.71	1.121	0.765	0.428	0.225
1.60V		20.53	12.38	8.80	4.98	2.74	1.125	0.769	0.429	0.226
1.50V		21.00	12.51	9.11	5.02	2.76	1.135	0.772	0.430	0.227
1.40V		21.64	12.61	9.35	5.04	2.78	1.139	0.774	0.431	0.228
1.30V		21.69	12.57	9.39	5.05	2.80	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 herein.