



# VRLA Rechargeable Battery

## HR40-12 Standard Type



### 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.
- Absorbent Glass Mat technology for efficient gas recombination.
- The power density at 5 min~15min discharging rate is 30% higher than BP series.

### APPLICATION

- UPS
- Wheelchairs
- Lawn Mowers
- Electronic Medical Equipment
- Golf-Carts



### SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	38Ah @ 10 hour rate F.V.(1.75V/cell)
Approx. Weight	12.1Kg(26.68lbs.)
Terminals	B7 (Fitting M6 bolt & nut)
Internal Resistance	≤6mΩ (Fully Charged )
Max. Discharge Current	495 A (5 sec.)
Max. Charge Current	11.4 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) HR40-12 Optional: Flame Retardant ABS(UL 94-V0) HR40-12FR

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

DIMENSION(mm/inch)	OUTER DIMENSIONS	TERMINAL TYPE
<b>Length</b> 195±1.5 (7.68±0.06)		<p>Terminal Hardware Initial Torque: B7(5.5Nm±5%)</p>
<b>Width</b> 129±1.5 (5.08±0.06)		
<b>Container Height</b> 155±1.5 (6.10±0.06)		
<b>Total Height</b> 179±2.0 (7.05±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	20 Min	30 Min	40 Min	50 Min	60 Min	120 Min
1.80V	1640.0	1120.0	811.0	692.0	526.0	400.0	334.0	294.0	162.2
1.70V	1960.0	1250.0	882.0	733.0	548.0	415.0	345.0	301.0	165.3
1.60V	2100.0	1315.0	922.0	760.0	560.0	425.0	352.0	306.0	168.0
1.50V	2160.0	1340.0	942.0	772.0	567.0	430.0	356.0	309.0	168.9
1.40V	2200.0	1358.0	953.0	779.0	571.0	433.0	359.0	311.0	169.3
1.30V	2220.0	1370.0	960.0	784.0	574.0	435.0	361.0	312.0	169.8

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

F.V. (V/cell) \ Discharge Time	5 Min	10 Min	15 Min	20 Min	30 Min	40 Min	50 Min	60 Min	120 Min
1.80V	146.43	98.25	70.16	59.35	44.58	33.64	27.95	24.50	13.52
1.70V	178.18	109.65	76.30	62.86	46.44	34.90	28.87	25.08	13.78
1.60V	190.91	115.35	79.76	65.18	47.46	35.74	29.46	25.50	14.00
1.50V	196.36	117.54	81.49	66.21	48.05	36.16	29.79	25.75	14.08
1.40V	200.00	119.12	82.44	66.81	48.39	36.42	30.04	25.92	14.11
1.30V	201.82	120.18	83.04	67.24	48.64	36.59	30.21	26.00	14.15

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