

# VRLA Rechargeable Battery

## HRL40-12 Handle Type



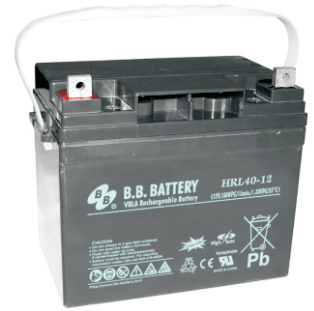
Measures Technology Values Innovation

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







### APPLICATION

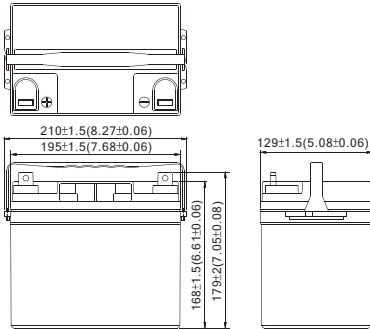
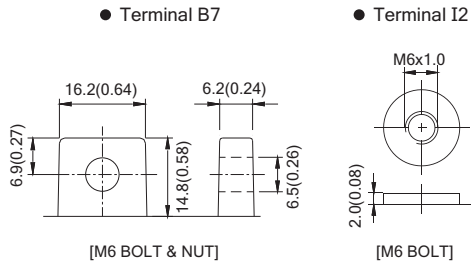
- UPS
- Wheelchairs
- Lawn Mowers
- Electronic Medical Equipment
- Golf-Carts
- Jump Starter
- Wind Power



### 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) I2 is optional
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) HRL40-12 Optional: Flame Retardant ABS(UL 94-V0) HRL40-12FR

   
 ISO9001 MH19884  
   
 ISO14001  
   
 OHSMS  
 ● IEC 61056-1  
 ● JIS C 8702-1  
 ● GB/T 19639.1

DIMENSION(mm/inch)	OUTER DIMENSIONS	TERMINAL TYPE
<ul style="list-style-type: none"> <li>■ Length 210±1.5 (8.27±0.06)</li> <li>■ Width 129±1.5 (5.08±0.06)</li> <li>■ Container Height 168±1.5 (6.61±0.06)</li> <li>■ Total Height B7:179±2.0 (7.05±0.08) I2:168±2.0 (6.61±0.08)</li> </ul>		<ul style="list-style-type: none"> <li>● Terminal B7</li> <li>● Terminal I2</li> </ul>  <p>Terminal Hardware Initial Torque: B7/I2(5.5Nm±5%)</p>

### 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.