



VRLA Rechargeable Battery

HRL75-12 (HRL75-12FR)

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
- Long life expectancy up to 10 years in float application
- 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
- Medical Equipments
- Golf-Carts
- Wind Power
- Jump Starter

SPECIFICATIONS

Nominal Voltage	12V	
Nominal Capacity	10 Hour Rate (7300mA, 10.5V)	73.0 Ah
	15 Min Rate (1800W, 7.8V)	37.5 Ah
Approx. Weight	24.75Kg(54.57lbs.)	
Terminals	B5 (Fitting M6 bolt & nut) I2 is optional	
Max. Discharge Current	650 A (5 sec.)	
Max. Charge Current	21.9 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)
Self Discharge	< 3% per month (25°C)	
Internal Resistance	≤ 4mΩ (Fully Charged)	



CONTAINER MATERIAL

- HRL75-12:
ABS: UL 94-HB (Dark gray color)
- HRL75-12FR:
ABS: UL 94-V0 (Light gray color)

 ISO 9001	 ISO14001
 C4M20310-2474-E-16 CE	
<ul style="list-style-type: none"> ● IEC 61056-1 ● JIS C 8702-1 ● GB/T 19639.1 	

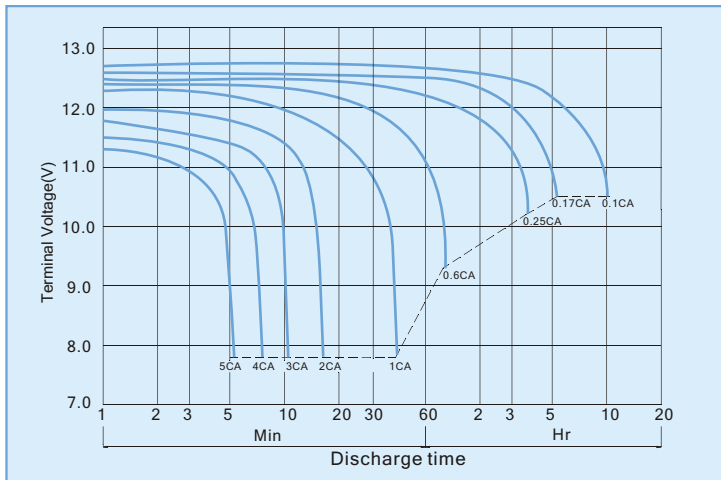
OUTER DIMENSIONS mm(inch)	Length (L)	Width (W)	Container Height (H)	Total Height (TH)
		350±2.0(13.78±0.08)	166±2.0(6.54±0.08)	174±2.0(6.85±0.08)

TERMINAL TYPE

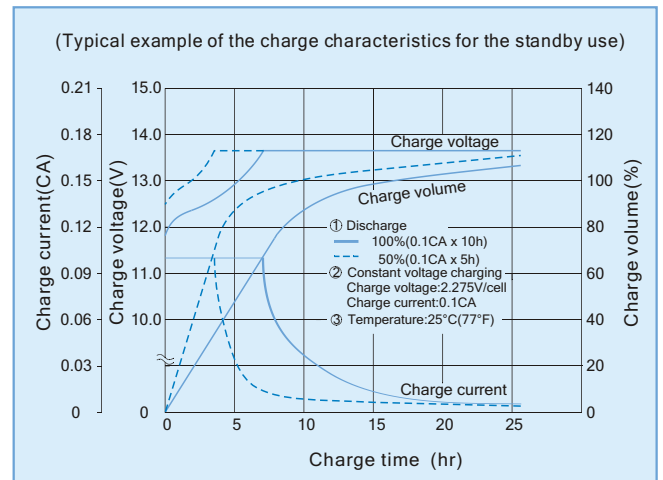
- Terminal B5
 - Dimensions: 21.0 (0.83) mm length, 6.3 (0.25) mm width, 7.0 (0.28) mm height.
 - Mounting: [M6 BOLT & NUT]
- Terminal I2
 - Dimensions: 6.3 (0.25) mm diameter, 2.0 (0.08) mm height.
 - Mounting: [M6 BOLT]

Terminal Hardware Initial Torque: B5/I2(5.5Nm±5%)

HRL75-12 (HRL75-12FR) discharge characteristics (25°C /77°F)



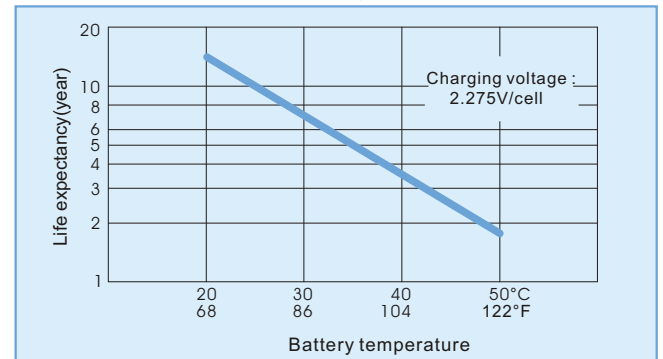
Battery Charging Characteristics



Charging Procedure

Application	Charging method	Charging Voltage at 25°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C /cell)	Max. charging current (CA)	Charging time 0.1CA, 25°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service					16	10	

Effect Of Temperature On Long Term Float Life



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

F.V. (V/cell) \ Discharge Time	15 Min	20 Min	30 Min	40 Min	50 Min	60 Min	120 Min
1.80V	1520.7	1297.8	986.3	750.0	625.6	551.3	303.8
1.70V	1647.3	1373.0	1027.5	778.5	646.9	563.4	310.1
1.60V	1728.8	1425.1	1049.6	796.5	660.0	573.7	315.0
1.50V	1766.3	1447.5	1063.2	806.3	667.5	579.4	316.8
1.40V	1786.0	1460.4	1070.9	811.5	672.2	585.0	317.7
1.30V	1799.9	1470.0	1076.3	815.7	676.7	585.0	318.6

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

F.V. (V/cell) \ Discharge Time	15 Min	20 Min	30 Min	40 Min	50 Min	60 Min	120 Min
1.80V	131.55	111.30	83.59	63.08	52.35	45.94	25.31
1.70V	142.50	117.75	87.08	65.48	54.14	46.95	25.84
1.60V	149.55	122.22	88.95	66.99	55.23	47.81	26.25
1.50V	152.79	124.14	90.10	67.81	55.86	48.29	26.40
1.40V	154.50	125.25	90.75	68.25	56.25	48.75	26.48
1.30V	155.70	126.07	91.21	68.60	56.63	48.75	26.55

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

Trials A/0 REV. Dec. 2010

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