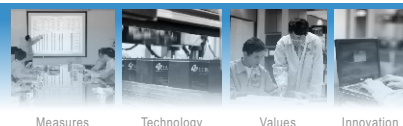




VRLA Rechargeable Battery

HRL9-12XP



Measures

Technology

Values

Innovation

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

APPLICATIONS

- UPS
- Laboratory Equipment
- Medical Equipments
- Data Centre
- Wind Power
- Jump Starter
- Power Packs

SPECIFICATIONS

Nominal Voltage	12V
Nominal Capacity	36W@15 min rate to 1.60V per cell at 25°C
Approx. Weight	2750g(6.06lbs.)
Terminals	T2 (Faston Tab 250) T1 is optional
Max. Discharge Current	120 A (5 sec.)
Max. Charge Current	2.4 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)
Self Discharge	< 3% per month (25°C)
Internal Resistance	≤17mΩ (Fully Charged)



CONTAINER MATERIAL

- Standard: ABS(UL94 HB)
Model Name: HRL9-12XP
- Optional: Flame Retardant ABS (UL94 V-0)
Model Name: HRL9-12XPFR

Certificate as below:

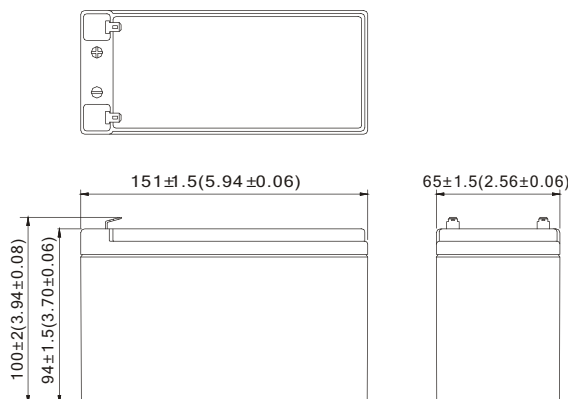


Compliance of the standards as below:

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

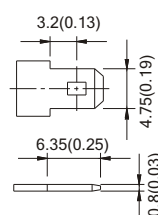
OUTER DIMENSIONS mm(inch)

Length (L)	Width (W)	Container Height (H)	Total Height (TH)
151±1.5(5.94±0.06)	65±1.5(2.56±0.06)	94±1.5(3.70±0.06)	100±2.0(3.94±0.08)

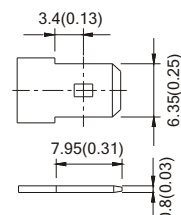


TERMINAL TYPE

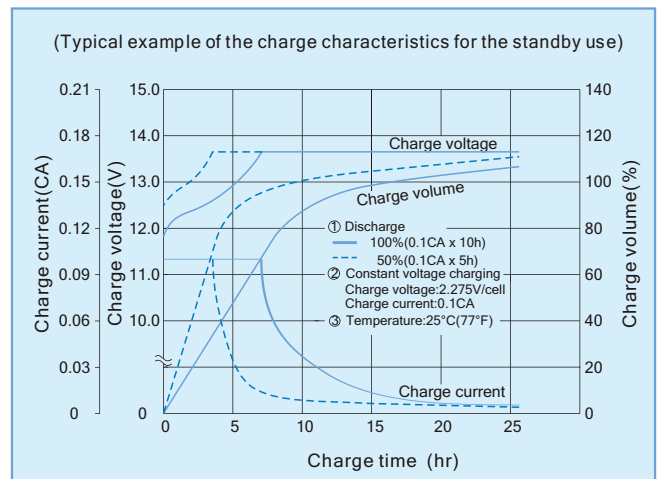
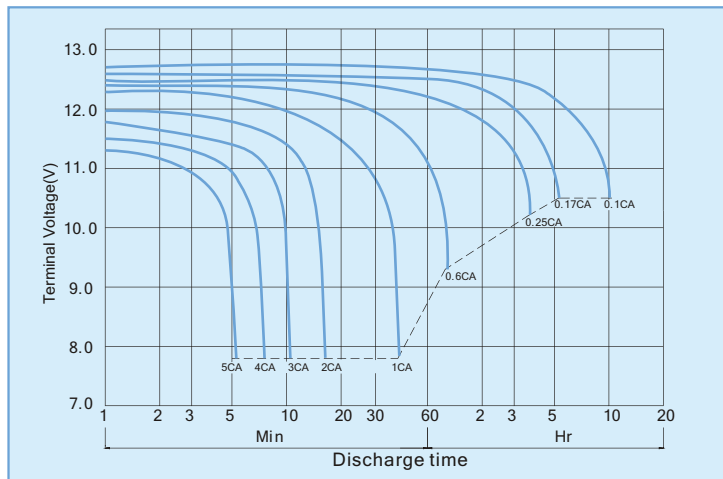
Terminal T1



Terminal T2



HRL9-12XP (HRL9-12XPFR) 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) (32~104°F)
					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		2.40~2.50	-4	0.3	16	10	

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

F.V. (V/cell) \ Discharge Time	2 Min	4 Min	5 Min	6 Min	8 Min	10 Min	15 Min	20 Min	30 Min	45 Min	60 Min	90 Min
1.30V	776	544	475	421	345	294	218.3	173.7	127.0	90.7	71.9	51.8
1.60V	755	531	464	413	340	291	216.0	171.4	125.3	89.5	71.0	51.2
1.67V	701	516	453	405	335	288	213.2	170.3	124.1	89.4	70.8	51.1
1.70V	692	506	444	399	331	285	212.3	169.3	123.4	89.2	70.7	51.0
1.75V	642	481	425	384	322	279	209.6	167.5	122.3	88.6	70.4	50.8
1.80V	585	444	398	360	308	267	203.6	163.8	120.4	87.1	69.3	50.3
1.85V	519	405	361	330	284	248	192.0	155.6	115.5	83.7	66.8	48.7

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

F.V. (V/cell) \ Discharge Time	2 Min	4 Min	5 Min	6 Min	8 Min	10 Min	15 Min	20 Min	30 Min	45 Min	60 Min	90 Min
1.30V	79.3	51.6	44.1	38.7	31.3	26.3	19.09	15.03	10.87	7.70	6.06	4.32
1.60V	77.2	50.3	43.1	38.0	30.8	26.0	18.90	14.83	10.72	7.60	5.98	4.26
1.67V	69.8	48.1	41.8	37.0	30.3	25.7	18.62	14.73	10.61	7.58	5.96	4.25
1.70V	66.3	46.9	40.9	36.3	29.8	25.5	18.53	14.62	10.53	7.57	5.95	4.24
1.75V	60.3	43.9	38.6	34.7	28.8	24.7	18.25	14.44	10.42	7.50	5.91	4.23
1.80V	53.5	40.0	35.6	32.4	27.1	23.5	17.55	14.07	10.23	7.34	5.81	4.17
1.85V	46.2	35.7	32.1	29.1	24.9	21.5	16.48	13.25	9.73	7.02	5.57	4.02

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

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