



VRLA Rechargeable Battery

HR22-12 (HR22-12FR)



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
- The power density at 5 min~15min discharging rate is 30% higher than BP series

APPLICATION

- UPS
- Fishing Lights
- Booster
- Emergency Lights
- Lawn Mowers
- Video Camcorders(VCR)



SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	20Ah @ 10 hour rate F.V.(1.75V/cell)
Approx. Weight	6500g(14.33lbs.)
Terminals	B1 (Fitting M5 bolt & nut) , T2 and I1 are optional
Internal Resistance	$\leq 9m\Omega$ (Fully Charged)
Max. Discharge Current	300 A (5 sec.)
Max. Charge Current	6.0 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	ABS(UL94-HB, UL94-V0 is optional)

ISO 9001



ISO14001



UL



CE



- IEC61056
- JIS C 8702
- GB/T 19639

DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

181±1.5 (7.13±0.06)

Width

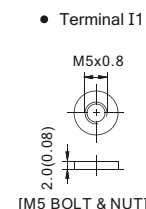
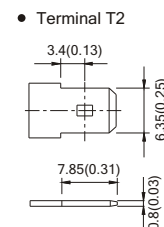
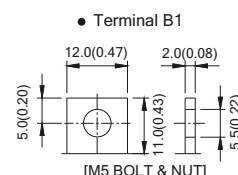
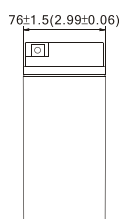
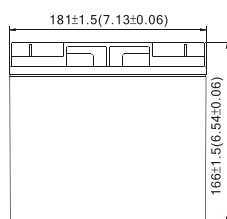
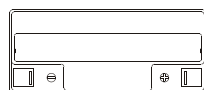
76±1.5 (2.99±0.06)

Container Height

166±1.5 (6.54±0.06)

Total Height

166±1.5 (6.54±0.06)



Terminal Hardware Initial Torque: B1(2.5Nm±5%),I1(4.0Nm±5%)

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		902.0	616.0	446.1	380.6	289.3	220.0	183.7	161.7	89.2
1.70V		1078.0	687.5	485.1	403.2	301.4	228.3	189.8	165.6	90.9
1.60V		1155.0	723.3	507.1	418.0	308.0	233.8	193.6	168.3	92.4
1.50V		1188.0	737.0	518.1	424.6	311.9	236.5	195.8	170.0	92.9
1.40V		1210.0	746.9	524.2	428.5	314.1	238.2	197.5	171.1	93.1
1.30V		1221.0	753.5	528.0	431.2	315.7	239.3	198.6	171.6	93.4

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		80.54	54.04	38.59	32.64	24.52	18.50	15.37	13.48	7.43
1.70V		98.00	60.31	41.96	34.58	25.54	19.20	15.88	13.80	7.58
1.60V		105.00	63.45	43.87	35.85	26.10	19.66	16.20	14.03	7.70
1.50V		108.00	64.65	44.82	36.42	26.43	19.89	16.38	14.17	7.74
1.40V		110.00	65.52	45.35	36.75	26.62	20.03	16.53	14.26	7.76
1.30V		111.00	66.10	45.67	36.98	26.75	20.13	16.62	14.30	7.78

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