

VRLA Battery

HR1223W

23W/Cell/15Min

Minhua HR Series High-rate Sealed Maintenance-free Lead-acid Battery

- Using high purity electrolytic lead as the active material, excellent charge-discharge performance and very low self-discharge rate, very conducive to storage and use
- Unique design and formula, excellent high-rate discharge performance
- Fully sealed maintenance-free, no need to supplement the electrolyte during use
- The designed service life is more than 3 years under floating charging mode

Application Area:

- Automatic alarm system
- Electrical automatic control system
- Uninterrupted power system
- Fire Control System

- General uninterruptible power system
- Centralized large-scale power system
- Distributed small-scale power system
- Power supply system for power tools



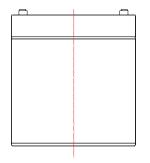
Material:

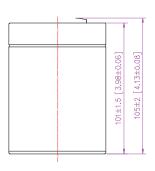
- Component.....material
- Positive plate...Lead dioxide
- Negative plate..Spongy lead
- Battery case......

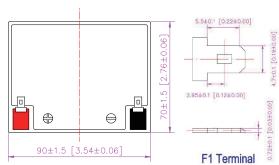
ABS Engineering plastics

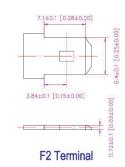
- Safety valve..... Fluorinated rubber
- Wire terminal..... Silver-plated copper
- Isolation plate..... Ultrafine glass fiber
- Electrolyte...... Analytical pure sulfuric









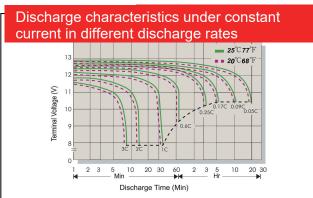


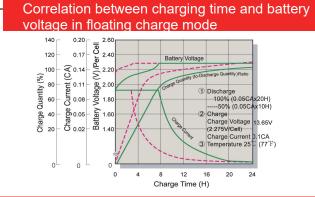
Technical Parameters:

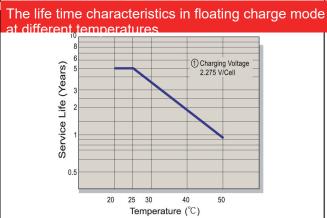
Battery model	HR1223W (23W/cell/15Min)							
Battery life designed	more than 3 years in the float charging mode							
Capacity designed (25°ℂ)	20HR(0.262A,10.5V)	10HR(0.496A,10.5V)	5HR(0.891A,10.5V)	1HR(3.034A,10.5V)				
	5.24 0AH	5.24 0AH 4.960 AH 4.455 AH		3.034 AH				
Battery size	Length	Width	Height	Total Height				
	90 mm	70 mm	101 mm	105 mm				
Battery weight	1.83 KG±3%							
Nominal internal resistance	100% charging is completed at 25 ° C environment ≤ 31.00 mΩ							
Self-discharge rate	2% self-discharge rate per month,at 25 ° C environment							
Capacity at different temperatures (20HR)	40°C	25℃	0°C	-15°C				
	102%	100%	85%	65%				
Charging voltage (25°ℂ)	Circ	ulation mode	Floating charge mode					
	14.4-15.0V(-30mV/°C), N	lax Charge Current 1.57	13.5-13.8V (-20mV/°C)					

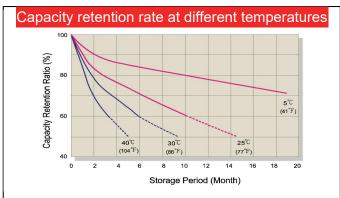
FUJIAN MINHUA POWER SOURCE CO., LTD.

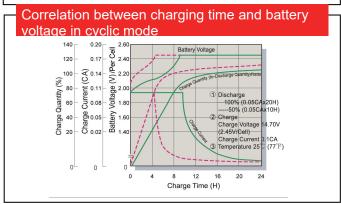


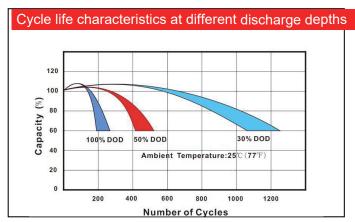












Discharge characteristics in constant current (CC,Unit:A) at 25°C(77°F)												
F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.80V/Cell	14.72	11.43	10.11	5.05	2.978	1.740	1.324	1.052	0.874	0.747	0.487	0.257
1.75V/Cell	15.00	11.65	10.30	5.14	3.034	1.773	1.349	1.072	0.891	0.761	0.496	0.262
1.70V/Cell	16.35	12.35	10.61	5.35	3.087	1.804	1.373	1.091	0.906	0.774	0.505	0.267
1.67V/Cell	18.00	13.40	11.02	5.65	3.120	1.823	1.387	1.103	0.916	0.783	0.510	0.269
1.60V/Cell	19.50	14.10	11.64	5.89	3.154	1.843	1.402	1.115	0.926	0.791	0.516	0.272
Discharge characteristics in constant power (CP,Unit:W) at 25℃(77°F)												
F.V/Time	5Min	10Min	15Min	30Min	1Hr	2Hr	3Hr	4Hr	5Hr	6Hr	10Hr	20Hr
1.80V/Cell	28.72	22.30	19.72	9.85	5.807	3.393	2.582	2.052	1.705	1.456	0.950	0.501
1.75V/Cell	29.25	22.72	20.09	10.03	5.916	3.457	2.631	2.091	1.737	1.484	0.968	0.511
1.70V/Cell	31.89	24.08	20.69	10.43	6.020	3.517	2.677	2.128	1.767	1.510	0.985	0.520
1.67V/Cell	35.11	26.13	21.49	11.02	6.085	3.555	2.706	2.150	1.786	1.526	0.995	0.525
1.60V/Cell	38.03	27.49	23.00	11.49	6.151	3.593	2.735	2.174	1.805	1.543	1.006	0.531