High Rate Series SLA Battery

HR Series

HR(High-Rate) Series of valve regulated lead acid (VRLA) batteries have been developed with high efficiency active materials to stimulate inside the battery with higher power output when the battery is discharged to a extent level of discharging. Along with high-density structure design for relatively smaller Inner resistance which will significantly improve the performance for high rate discharging when high power output service is needed.

Application

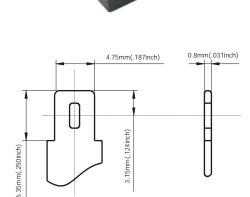
- Alarm System
- Cable Televison
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- Toys
- UPS
- Emergency Power System

General Features

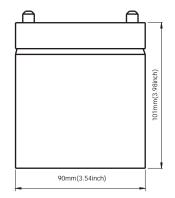
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.
- Flexibility design for multiple install positions.

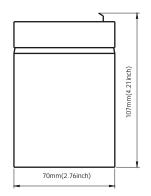
Construction

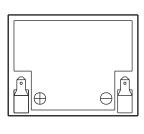
- ComponentRaw material
 PositiveLead dioxide
 NegativeLead
 ContainerABS
 CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopperSeparatorFibre glass
- ElectrolyteSulfuric acid



Terminal Dimensions

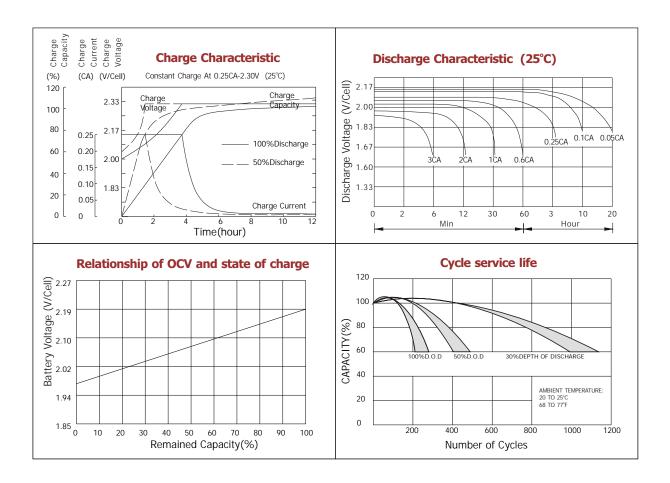






Battery Model	HR12B-24W (24W to 1.67V, 15min)					
Designed Floating Life	5 Years					
Capacity(2E°C)	20HR(0.26A,1.75V)	10HR(0.5A,1.75V)	5HR(0.9A,1.75V)	1HR(4.08A,1.75V)		
Capacity(25°C)	5.2AH	5.2AH 5AH 4.5AH		4.08AH		
Dimensions	Length	Width	Height	Total Height		
Dimensions	90mm(3.54inch)	70mm(2.76inch)	101mm(3.98inch)	107mm(4.21inch)		
Approx. Weight		1.9Kg (4	.19 lbs)			
Internal Resistance	Full charged at 25°C: 0.025 Ohm					
Self Discharge	3% of capacity declined per month at (25°C)					
Capacity Affected by Temp.(20HR)	40°C	25°C	0°C	-15°C		
	102%	100%	85%	65%		
01 14 (0500)	Cycle use		Float use			
Charge Voltage(25°C)	14.4-15V(-30mV/ °C)	, max. Current: 1.5A	13.6-13.8V(-20mV/ °C)			

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Constant current discharge ratings-amperes at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	28.4	17.6	13.3	8.12	4.26	1.72	1.05	0.57	0.31
1.67V	26.6	16.7	12.8	7.76	4.21	1.65	1.03	0.57	0.30
1.70V	24.4	16.1	12.5	7.06	4.08	1.54	1.00	0.56	0.29
1.75V	23.9	15.6	12.1	6.71	3.89	1.49	0.98	0.56	0.29
1.80V	21.4	14.9	11.0	6.21	3.64	1.43	0.92	0.55	0.28
1.85V	18.9	14.2	9.9	5.72	3.39	1.38	0.87	0.54	0.27

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	49.8	31.9	24.3	14.6	7.70	3.04	1.77	1.17	0.62
1.67V	48.0	31.1	24.0	14.3	7.65	2.95	1.76	1.17	0.59
1.70V	45.2	30.8	23.8	13.4	7.50	2.82	1.74	1.16	0.59
1.75V	45.5	30.7	23.6	13.0	7.38	2.75	1.73	1.14	0.57
1.80V	41.6	30.2	21.9	12.4	6.95	2.67	1.67	1.13	0.56
1.85V	37.8	28.7	19.8	11.6	6.54	2.59	1.62	1.11	0.54





