HR 12L-24W

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

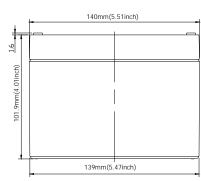
- Alarm System
- Cable Televison
- Communication Equipment
- Control Equipment
- Security SystemMedical Equipment
- Toys
- UPS
- Emergency Power System

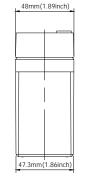
General Features

- 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.

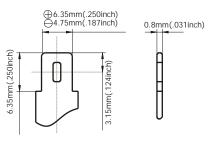
Construction

- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy Resin
- Safety valve EPDR
- TerminalCopper
- SeparatorFibre glass
- ElectrolyteSulfuric acid

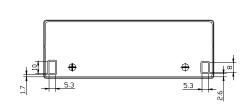








Terminal Dimensions

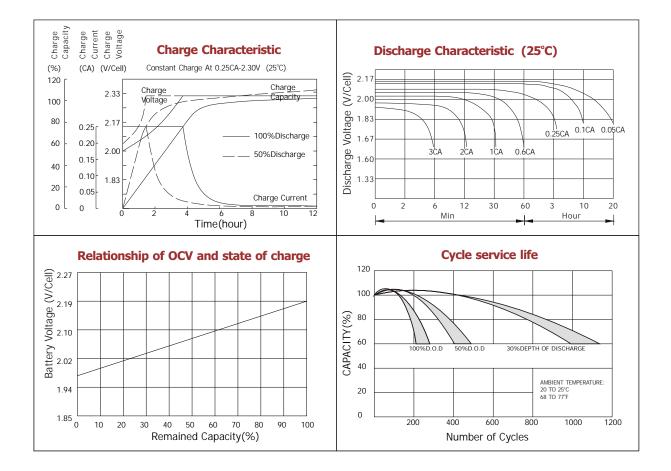


Battery Model	HR12L-24W (24W to 1.67V, 15min)					
Designed Floating Life	5 Years					
Capacity(25°C)	20HR(0.29A,1.75V)	10HR(0.55A,1.75V)	5HR(0.98A,1.75V)	1HR(3.7A,1.75V)		
	5.8AH	5.5AH	4.9AH	3.7AH		
Dimonsions	Length	Width	Height	Total Height		
Dimensions	140mm(5.51inch)	48mm(1.89inch)	103.5mm(4.07inch)	103.5mm(4.07inch)		
Approx. Weight	1.7Kg (3.75 lbs)					
Internal Resistance	Full charged at 25°C: 0.021 Ohm					
Self Discharge	3% of capacity declined per month at (25°C)					
Capacity Affected	40°C	25°C	0°C	-15°C		
by Temp.(20HR)	102%	100%	85%	65%		
Charge Voltage(25°C)	Cycle	e use	Float use			
Charge Vollage(25 C)	14.4-15V(-30mV/ °C)), max. Current: 1.65A	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	21.9	13.6	10.30	6.26	3.98	1.75	1.07	0.60	0.31
1.67V	20.5	12.9	9.88	5.99	3.93	1.68	1.05	0.59	0.30
1.70V	18.8	12.4	9.64	5.44	3.81	1.57	1.02	0.59	0.30
1.75V	18.4	12.1	9.33	5.17	3.63	1.52	1.00	0.58	0.29
1.80V	16.5	11.5	8.48	4.79	3.40	1.46	0.94	0.57	0.28
1.85V	14.6	11.0	7.62	4.41	3.17	1.40	0.88	0.57	0.27

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	38.4	24.6	18.7	11.3	7.18	3.10	1.80	1.19	0.63
1.67V	37.0	24.0	18.5	11.0	7.14	3.00	1.80	1.19	0.60
1.70V	34.9	23.7	18.4	10.3	7.00	2.87	1.77	1.18	0.60
1.75V	35.1	23.6	18.2	10.0	6.88	2.80	1.76	1.16	0.58
1.80V	32.1	23.3	16.9	9.57	6.49	2.72	1.70	1.15	0.57
1.85V	29.1	22.1	15.3	8.96	6.10	2.64	1.65	1.13	0.55



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