# HR 12-64W

### 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
- - ToysUPS
  - Emergency Power System

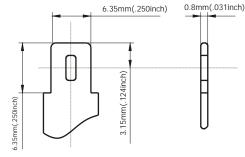
#### **General Features**

- 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.

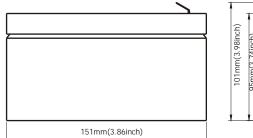
#### Construction

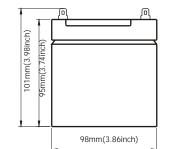
- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant ......Epoxy Resin
- Safety valve .....EPDR
- Terminal ......Copper
- Separator ......Fibre glass
- Electrolyte ......Sulfuric acid

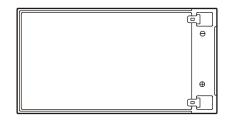




#### **Terminal Dimensions**







Battery Model	HR12-64W(64W to 1.67V, 15min)						
Designed Floating Life	5 Years						
$C_{2}$	20HR(0.77A,1.75V)	10HR(1.47A,1.75V)	5HR(2.52A,1.75V)	1HR(9.5A,1.75V)			
Capacity(25°C)	15.4AH	14.7AH	12.6AH	9.5AH			
Dimensions	Length	Width	Height	Total Height			
Dimensions	151mm(5.94inch)	98mm(3.86inch)	95mm(3.74inch)	101mm(4.3.98inch)			
Approx. Weight	4.4 Kg (9.70 lbs)						
Internal Resistance	Full charged at 25°C: 0.01 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 voitage(25 C)	14.4-15V(-15mV/ °C), max. Current: 4.2A		13.6-13.8	V(-10mV/ °C)			

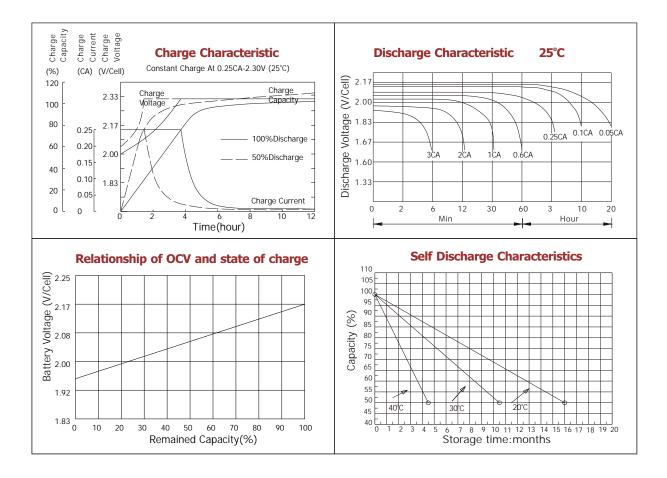
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#### Constant current discharge ratings-amperes at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	75.6	47.1	35.5	21.6	10.45	4.59	2.80	1.53	0.82
1.67V	71.0	44.6	34.2	20.7	10.31	4.41	2.74	1.51	0.80
1.70V	65.1	43.0	33.3	18.8	10.00	4.12	2.69	1.51	0.78
1.75V	63.8	41.7	32.3	17.9	9.53	3.98	2.63	1.50	0.76
1.80V	57.1	39.8	29.3	16.6	8.92	3.82	2.47	1.47	0.74
1.85V	50.3	37.9	26.4	15.2	8.31	3.68	2.31	1.45	0.72

#### Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	132.7	85.0	64.8	39.0	18.9	8.13	4.74	3.14	1.65
1.67V	128.0	82.8	64.0	38.2	18.7	7.88	4.72	3.12	1.59
1.70V	120.6	82.0	63.5	35.8	18.4	7.53	4.66	3.10	1.57
1.75V	121.3	81.7	62.9	34.7	18.1	7.35	4.61	3.06	1.53
1.80V	111.0	80.5	58.4	33.1	17.0	7.13	4.47	3.02	1.49
1.85V	100.7	76.4	52.9	31.0	16.0	6.92	4.33	2.92	1.44



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