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.

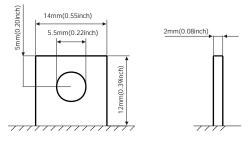
VRLA Battery

- 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.

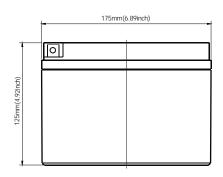
Construction

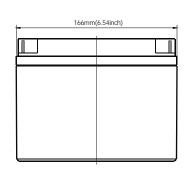
• ComponentRaw material
PositiveLead dioxide
NegativeLead
ContainerABS
 Cover ABS

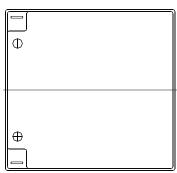
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorFibre glassElectrolyteSulfuric acid



Terminal Dimensions

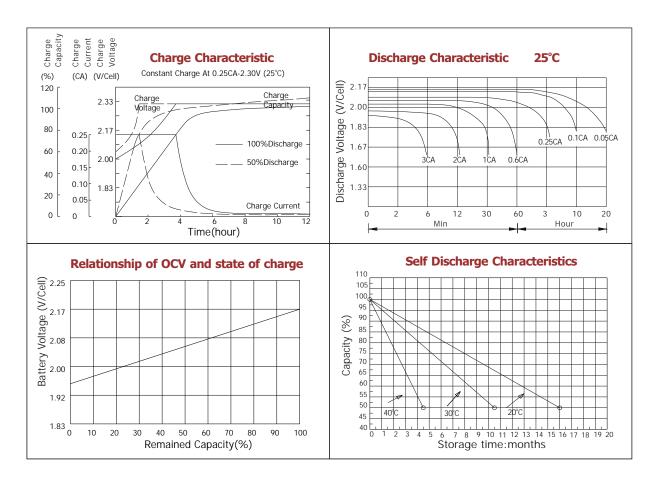






Battery Model	HR12-100W (100W to 1.67V, 15min)						
Designed Floating Life	5 Years						
Capacity(25°C)	20HR(1.6A,1.75V) 10HR(3.1A,1.75V) 5HR(7.4A,1.75		5HR(7.4A,1.75V)	1HR(20A,1.75V)			
	32AH	31AH 27AH		20AH			
Dimensions	Length	Width	Height	Total Height			
	175mm(6.89inch)	166mm(6.54inch)	125mm(4.92inch)	125mm(4.92inch)			
Approx. Weight	8.9Kg (19.62 lbs)						
Internal Resistance	Full charged at 25°C: 0.021 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%			
Chargo Voltago(2E°C)	Cycle	e use	Float use				
Charge Voltage(25°C)	14.4-15V(-30mV/ °C)	, max. Current: 7.5A	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	118.2	73.5	55.5	33.8	23.45	10.30	6.29	3.43	1.85
1.67V	110.9	69.7	53.4	32.4	23.14	9.90	6.16	3.39	1.79
1.70V	101.6	67.2	52.1	29.4	22.44	9.24	6.03	3.38	1.76
1.75V	99.6	65.1	50.4	27.9	21.38	8.93	5.90	3.37	1.71
1.80V	89.1	62.2	45.8	25.9	20.02	8.58	5.54	3.30	1.67
1.85V	78.7	59.2	41.2	23.8	18.66	8.27	5.19	3.26	1.62

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	207.3	132.8	101.3	60.9	42.3	18.26	10.63	7.04	3.70
1.67V	200.1	129.4	100.0	59.7	42.1	17.69	10.59	7.00	3.56
1.70V	188.4	128.2	99.2	55.9	41.3	16.90	10.45	6.95	3.52
1.75V	189.6	127.7	98.3	54.2	40.6	16.50	10.36	6.86	3.43
1.80V	173.4	125.8	91.2	51.7	38.2	16.02	10.04	6.78	3.34
1.85V	157.3	119.4	82.7	48.4	35.9	15.53	9.72	6.56	3.25







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