

HR Range

HR(Hight Rate)range 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

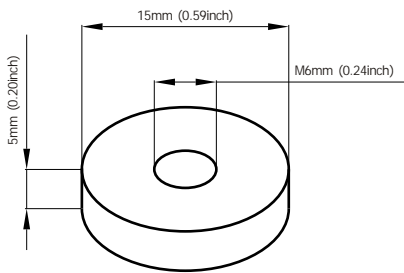
- Alarm System
- Cable Television
- Cable Television
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- Toys
- UPS
- Emergency Power System

General Features

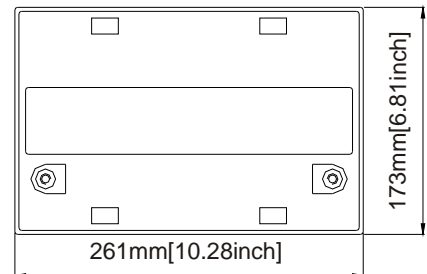
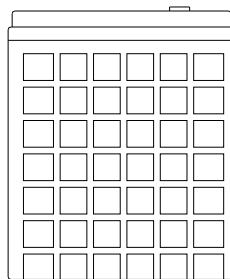
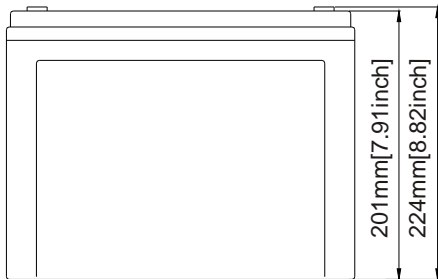
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

Construction

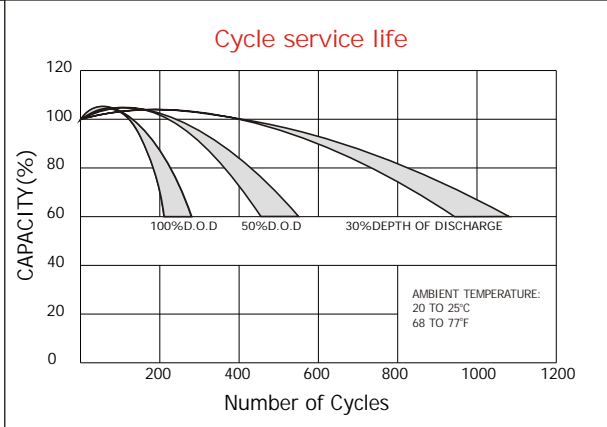
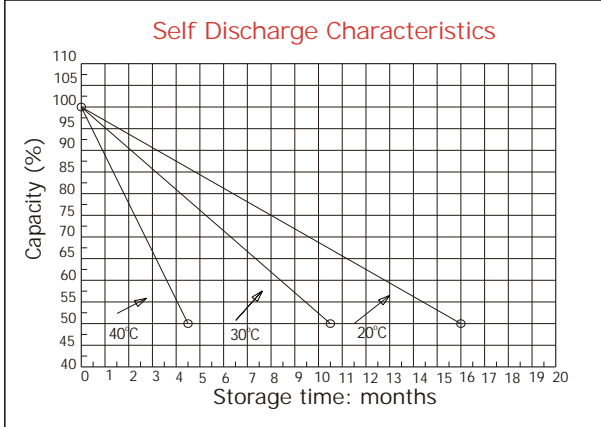
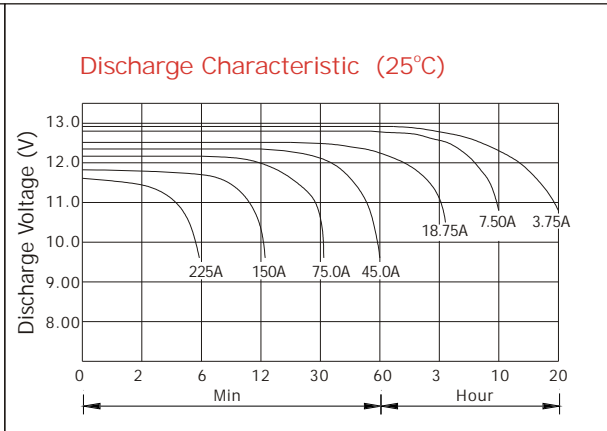
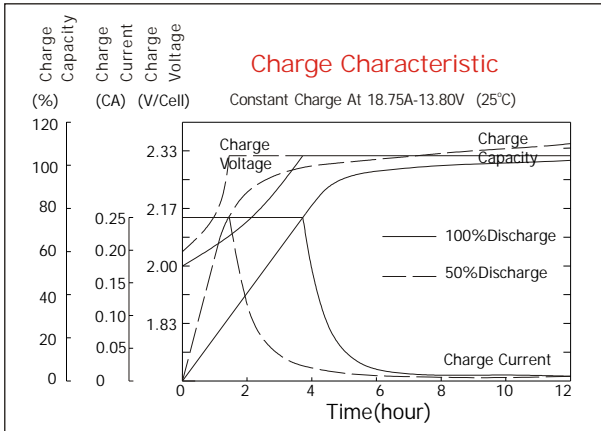
- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorFiber glass
- ElectrolyteSulfuric acid



Standard Terminal Dimensions
(Optional terminal please check terminal information page)



Battery Model	GT12-75HR (270W to 1.67V, 15min)			
Designed Floating Life	6-8 Years			
Capacity(25°C)	20HR(3.75A,1.75V)	10HR(7.3A,1.75V)	5HR(14.4A,1.75V)	1HR(49A,1.75V)
	75AH	73AH	72AH	49AH
Dimensions	Length	Width	Height	Total Height
	261mm(10.28inch)	173mm(6.81inch)	201mm(7.91inch)	224mm(8.82inch)
Approx. Weight	26Kg (57.2 lbs)			
Internal Resistance	Full charged at 25°C: 0.0055 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%
Charge Voltage(25°C)	Cycle use		Float use	
	14.4-15V(-30mV/ °C), max. Current: 18.75A		13.6-13.8V(-20mV/ °C)	



Constant current discharge ratings-amperes at 25°C

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	196	136	105	77.0	49.5	23.3	14.8	7.50	3.83
1.67V	192	135	103	76.0	49.2	23.1	14.7	7.40	3.80
1.70V	192	135	103	76.0	49.2	23.0	14.6	7.40	3.78
1.75V	190	135	103	76.0	49.0	23.0	14.4	7.30	3.75
1.80V	188	135	103	75.0	47.0	22.5	14.0	7.20	3.70
1.85V	175	123	99.0	67.5	45.8	20.7	14.0	7.10	3.65

Constant power discharge ratings-watts at 25°C

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	537	368	284	181	108.0	49.7	33.3	16.2	7.91
1.67V	512	359	270	178	106.0	46.3	32.0	16.0	7.88
1.70V	500	350	268	177	105.0	45.7	31.3	15.8	7.88
1.75V	484	342	265	172	103.0	45.0	30.8	15.8	7.84
1.80V	470	330	263	162	103.0	43.3	30.0	15.7	7.56
1.85V	420	300	258	158	102.0	52.5	28.7	15.0	7.37

