

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

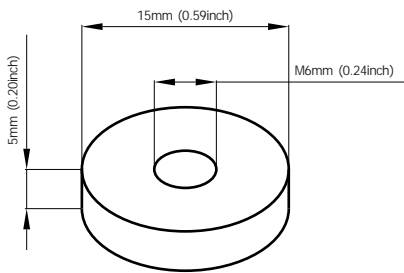
- Alarm System
- Cable Television
- Cable Television
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- Toys
- UPS
- Emergency Power System

General Features

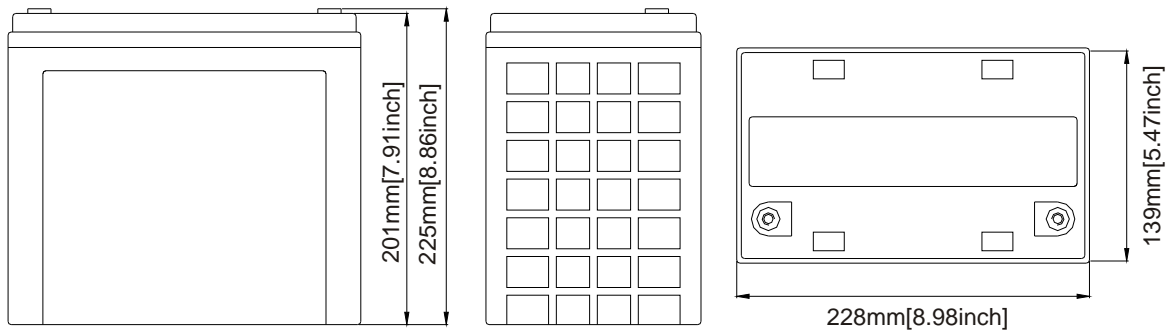
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

Construction

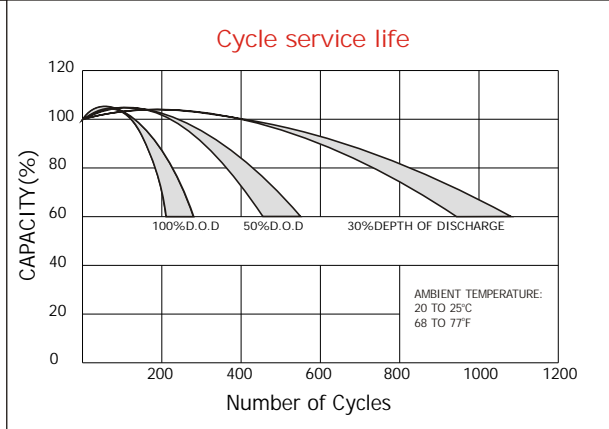
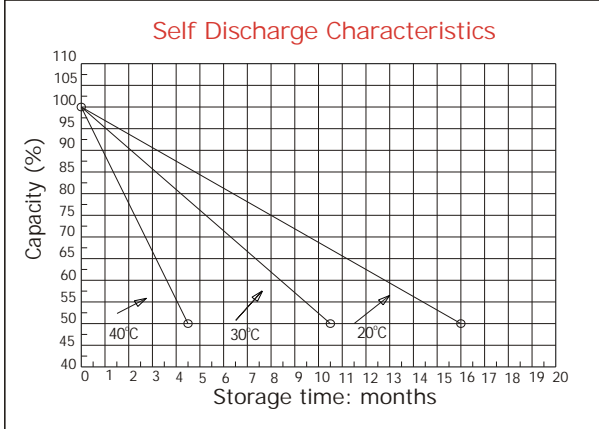
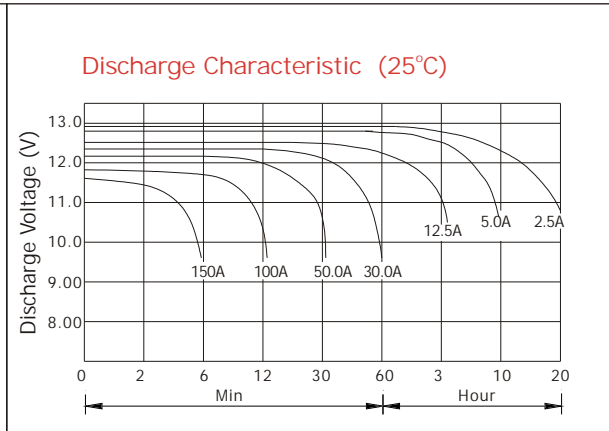
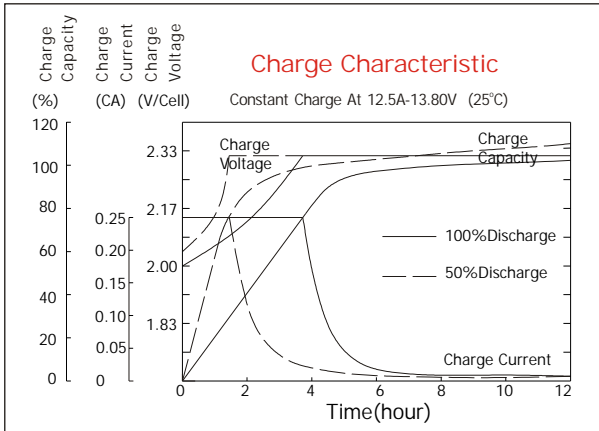
- ComponentRaw material
- PositiveLead dioxide
- NegativeLead
- ContainerABS
- CoverABS
- SealantEpoxy Resin
- Safety valveEPDR
- TerminalCopper
- SeparatorFiber glass
- ElectrolyteSulfuric acid



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



Battery Model	GT12-50HR (170W to 1.67V, 15min)			
Designed Floating Life	6-8 Years			
Capacity(25°C)	20HR(2.5A,1.75V)	10HR(4.65A,1.75V)	5HR(8.79A,1.75V)	1HR(35A,1.75V)
	50AH	46.5AH	43.95AH	35AH
Dimensions	Length	Width	Height	Total Height
	228mm(8.98inch)	139mm(5.47inch)	201mm(7.91inch)	225mm(8.86inch)
Approx. Weight	17.5Kg (38.5 lbs)			
Internal Resistance	Full charged at 25°C: 0.0085 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: 12.5A		13.6-13.8V(-20mV/ °C)	



Constant current discharge ratings-amperes at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	8HR	10HR	20HR
1.60V	137	94	87.9	56.8	35.3	14.1	9.09	5.93	4.95	2.65
1.67V	134	94	83.3	54.5	35.0	14.0	8.94	5.70	4.65	2.60
1.70V	134	94	81.8	54.5	35.0	14.0	8.79	5.65	4.65	2.55
1.75V	133	94	80.8	54.5	35.0	13.9	8.79	5.65	4.65	2.50
1.80V	126	90.2	80.0	53.3	34.1	13.9	8.79	5.57	4.51	2.44
1.85V	118	85.0	77.3	51.5	32.6	13.3	8.64	5.40	4.32	2.35

Constant power discharge ratings-watts at 25°C

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	8HR	10HR	20HR
1.60V	298	215	175	108.0	67.4	28.5	18.5	12.2	10.20	5.35
1.67V	288	212	171	107.0	67.0	28.4	18.3	12.0	10.10	5.30
1.70V	278	211	170	107.0	66.9	28.4	18.2	11.9	9.96	5.22
1.75V	273	205	168	106.0	66.6	28.3	18.0	11.8	9.89	5.19
1.80V	267	200	165	105.0	66.0	28.1	17.8	11.7	9.84	5.16
1.85V	260	194	147	103.0	65.2	27.6	17.3	11.4	9.60	5.03

