



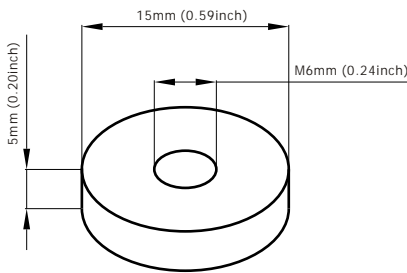
HR(Hight Rate) range has been developed with high efficiency active materials to stimulate inside the battery with higher power output when the battery is discharged to a extent level. With high-density structure the inner resistance can be reduced to a relatively lower level, which will significantly improve the performance for high rate discharging when high power output service is needed.

### Applications

- Electric Car & Scooter
- Toys and Spot Light
- Photovoltaic Solar System
- Marine Application
- UPS
- Toy

### General Features

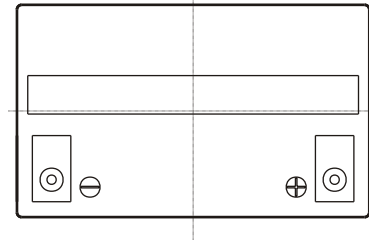
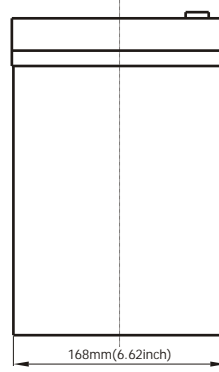
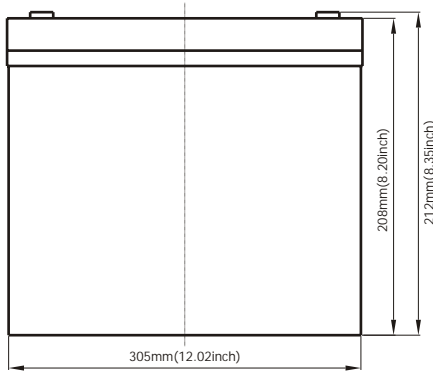
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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



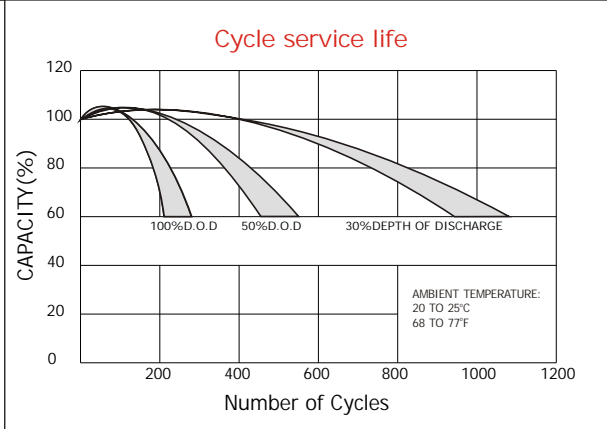
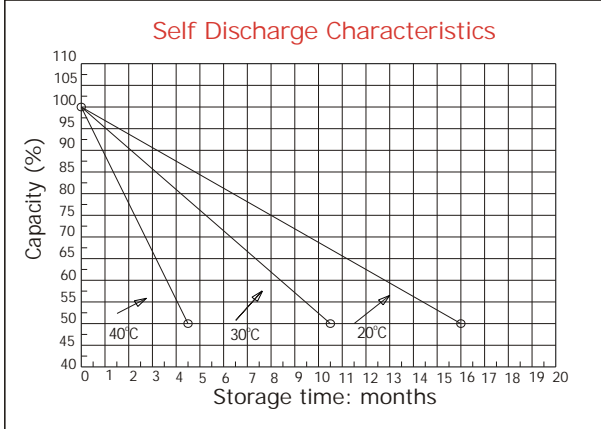
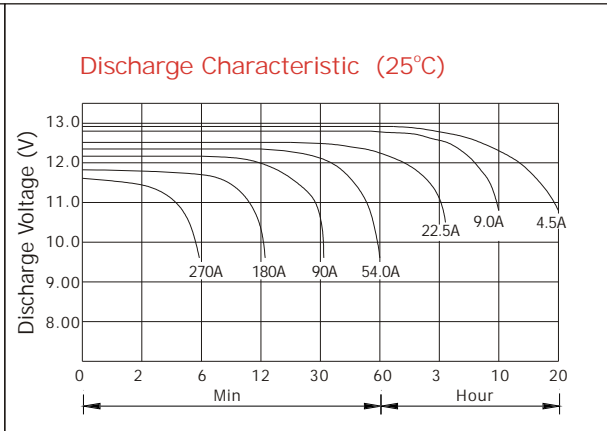
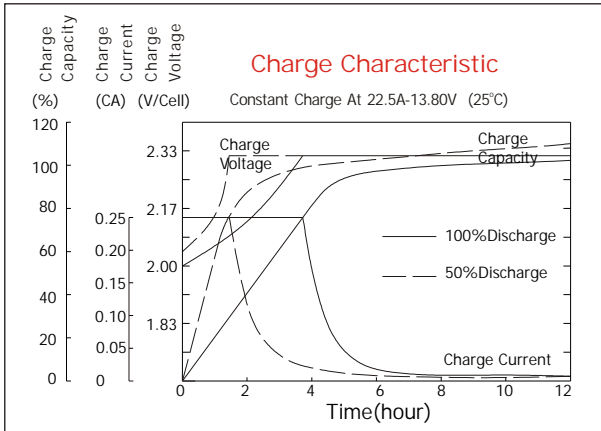
**Standard Terminal Dimensions**  
(Optional terminal please check terminal information page)

### Construction

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



Battery Model	GT12-90HR (310W to 1.67V, 15min)			
Designed Floating Life	6-8 Years			
Capacity(25°C)	20HR(4.6A,1.75V)	10HR(9A,1.75V)	5HR(15.3A,1.75V)	1HR(61A,1.75V)
	92Ah	90Ah	76.5Ah	61Ah
Dimensions	Length	Width	Height	Total Height
	305mm(12.0inch)	168mm(6.62inch)	208mm(8.20inch)	212mm(8.35inch)
Approx. Weight	28.9Kg (63.7 lbs)			
Internal Resistance	Full charged at 25°C :0.0052 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	
	14.4-14.8V(-30mV/ °C), max. Current: 22.5A		13.6-13.8(-20mV/ °C)	



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

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	366	228	172	105	65.4	28.7	17.5	9.55	5.16
1.67V	344	216	165	100	64.5	27.6	17.2	9.46	4.98
1.70V	315	208	162	91.2	62.6	25.8	16.8	9.42	4.90
1.75V	309	202	156	86.6	59.6	24.9	16.4	9.39	4.78
1.80V	276	193	142	80.2	55.8	23.9	15.5	9.20	4.65
1.85V	244	184	128	73.9	52.0	23.1	14.5	9.07	4.52

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

F. V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	643	412	314	189	118	50.9	29.6	19.6	10.3
1.67V	620	401	310	185	117	49.3	29.5	19.5	9.94
1.70V	584	397	307	173	115	47.1	29.1	19.4	9.81
1.75V	588	396	305	168	113	46.0	28.9	19.1	9.57
1.80V	538	390	283	160	107	44.7	28.0	18.9	9.32
1.85V	488	370	256	150	100	43.3	27.1	18.6	8.95

