



### HR Range

HR(High 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

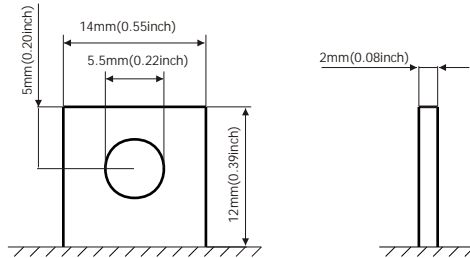
- Alarm System
- Cable Television
- Cable Television
- Communication Equipment
- Control Equipment
- Security System
- Medical Equipment
- Toys
- UPS
- Emergency Power System

### General Features

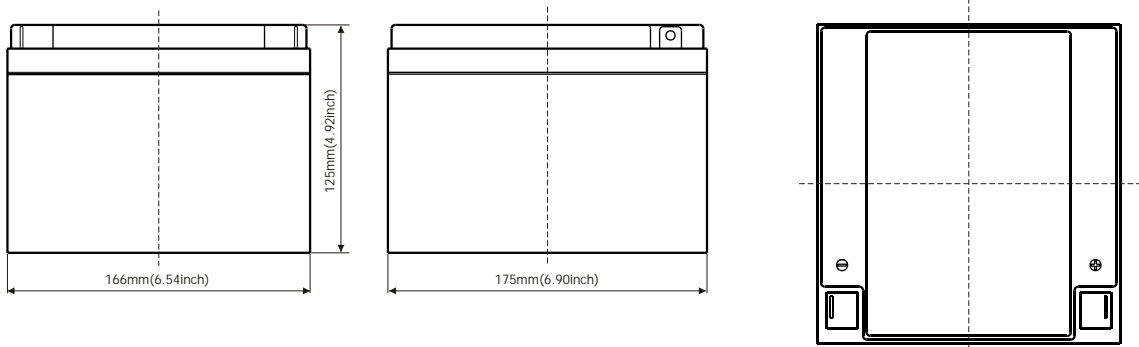
- Sealed and maintenance free operation.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- High quality and high reliability.
- Exceptional deep discharge recovery performance.
- Low self discharge characteristic.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

### Construction

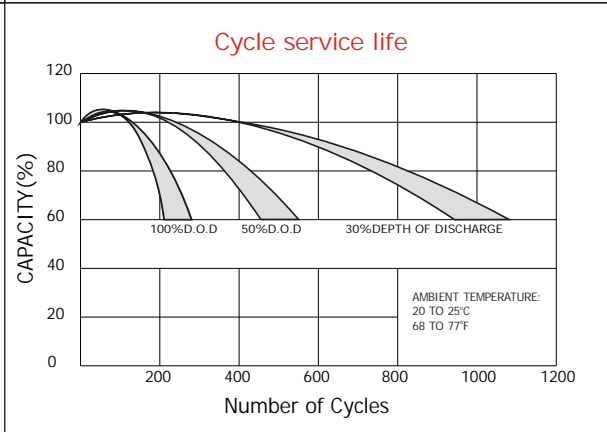
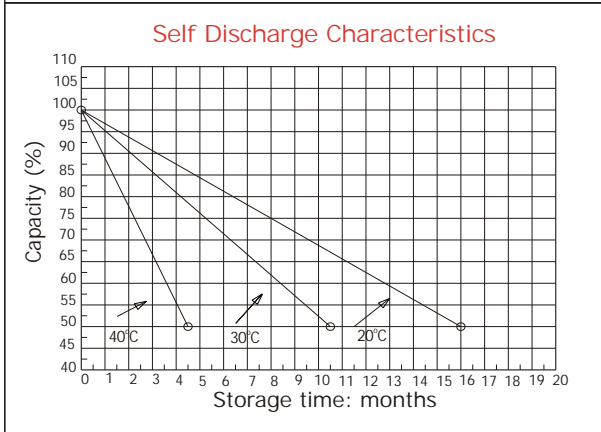
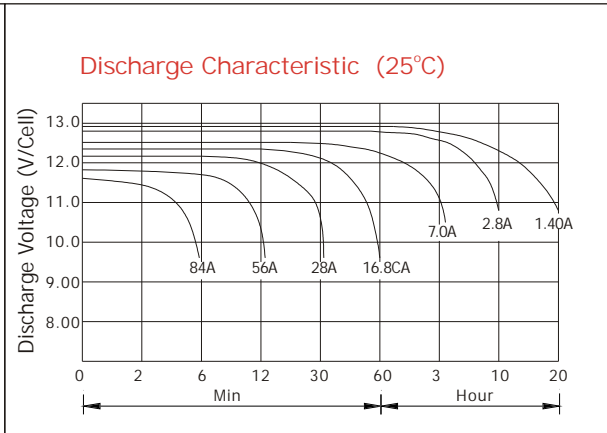
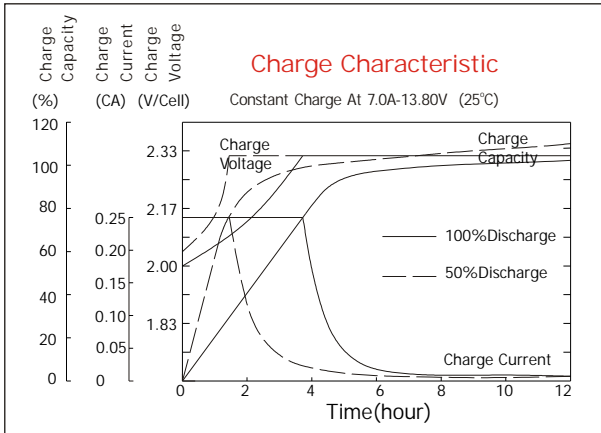
- Component .....Raw material
- Positive .....Lead dioxide
- Negative .....Lead
- Container .....ABS
- Cover .....ABS
- Sealant .....Epoxy Resin
- Safety valve .....EPDR
- Terminal .....Copper
- Separator .....Fiber glass
- Electrolyte .....Sulfuric acid



Terminal Dimensions



Battery Model	GT12-26HR (100W to 1.67V, 15min)			
Designed Floating Life	6-8 Years			
Capacity(25°C)	20HR(1.4A,1.75V)	10HR(2.7A,1.75V)	5HR(4.6A,1.75V)	1HR(17.5A,1.75V)
	28AH	27AH	23AH	17.5AH
Dimensions	Length	Width	Height	Total Height
	175mm(6.89inch)	166mm(6.54inch)	125mm(4.92inch)	125mm(4.92inch)
Approx. Weight	8.9Kg (19.6 lbs)			
Internal Resistance	Full charged at 25°C: 0.012 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: 6.75A		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	118	73.5	55.5	33.8	19.2	8.42	5.15	2.80	1.52
1.67V	111	69.7	53.4	32.4	18.9	8.10	5.04	2.78	1.46
1.70V	102	67.2	52.1	29.4	18.4	7.56	4.93	2.77	1.44
1.75V	99.6	65.1	50.4	27.9	17.5	7.31	4.82	2.76	1.40
1.80V	89.1	62.2	45.8	25.9	16.4	7.02	4.54	2.70	1.36
1.85V	78.7	59.2	41.2	23.8	15.3	6.77	4.25	2.66	1.33

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	207	133	101	60.9	34.6	14.9	8.70	5.76	3.02
1.67V	200	129	100	59.7	34.4	14.5	8.66	5.72	2.92
1.70V	188	128	99.2	55.9	33.8	13.8	8.55	5.69	2.88
1.75V	190	128	98.3	54.2	33.2	13.5	8.48	5.62	2.84
1.80V	173	126	91.2	51.7	31.3	13.1	8.21	5.54	2.80
1.85V	157	119	82.7	48.4	29.4	12.7	7.95	5.47	2.76

