

# GTAG12-7.5 12V7.5AH

## AGM BATTERY - AGM SERIES



### Specifications

Nominal Voltage	12V	
Nominal Capacity	7.5Ah	
Dimensions	Length	151±2mm
	Width	65±2mm
	Height	94±2mm
	Total height	100±2mm
Approx. Weight	2.19kg±3%	
Terminal Type	F2	
Capacity (25°C)	20HR Rate (0.375A)	7.5Ah
Discharge Current Testing (25°C)	20 I <sub>20</sub> rate (7.5A, 27min)	40min
	60 I <sub>20</sub> rate (22.5A, 7min)	9min
Internal Resistance (Fully charged, 25°C)	Approx. 24mΩ	
Cyclic Charging Voltage (25°C)	Initial Charging Current Less Than 2.25A Voltage 14.6~15.0V	
Float Charging Voltage (25°C)	Charge Voltage 13.6~13.7V	
Capacity affected by temperature	40°C	104%
	25°C	100%
	0°C	83%
	-15°C	65%
Self-discharge (25°C)	3 months	Remaining capacity: 91%
	6 months	Remaining capacity: 82%
	12 months	Remaining capacity: 65%

### Applications

- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply

#### Remarks:

- Use in normal climate environment with standard range of regulated powered electricity.
- Falling, hitting, bending, etc. may cause degradation of battery characteristics.

### Constant current discharge characteristics (A, 25°C)

F.V/Time	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	27.54	18.36	14.28	8.16	4.79	2.54	1.76	1.17	0.81	0.72	0.39
10.2V	26.21	17.44	13.67	7.81	4.64	2.47	1.73	1.15	0.80	0.71	0.38
10.5V	25.45	16.93	13.31	7.61	4.54	2.45	1.71	1.14	0.79	0.70	0.38
10.8V	24.68	16.42	12.95	7.41	4.44	2.42	1.68	1.12	0.78	0.69	0.37

### Constant power discharge characteristics (W, 25°C)

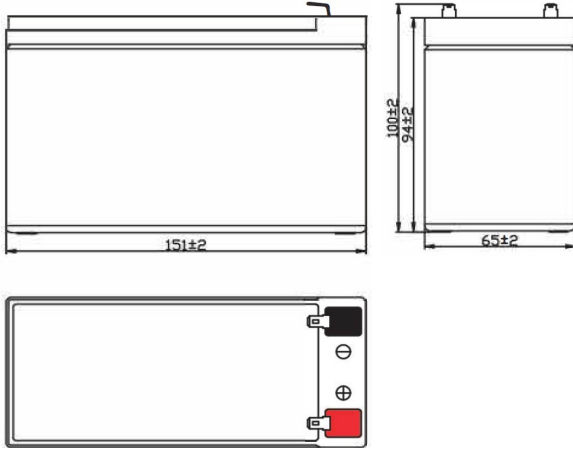
F.V/Time	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	307.02	207.06	163.20	93.53	55.49	29.63	21.01	14.08	9.56	8.69	4.52
10.2V	292.74	194.82	156.06	89.56	53.75	29.23	20.60	13.87	9.48	8.57	4.42
10.5V	284.07	189.21	151.98	87.21	52.58	28.92	20.30	13.67	9.44	8.45	4.36
10.8V	275.40	183.60	147.90	84.86	51.41	28.60	19.99	13.46	9.40	8.33	4.29

### Capacity factors with different temperature

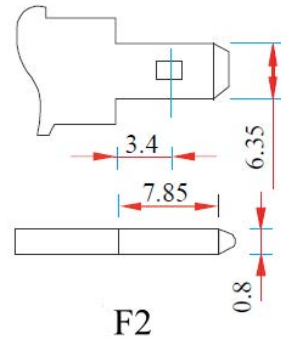
Battery Type	-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Battery	12V	50%	70%	83%	85%	90%	98%	100%	102%	104%

Note 1: The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

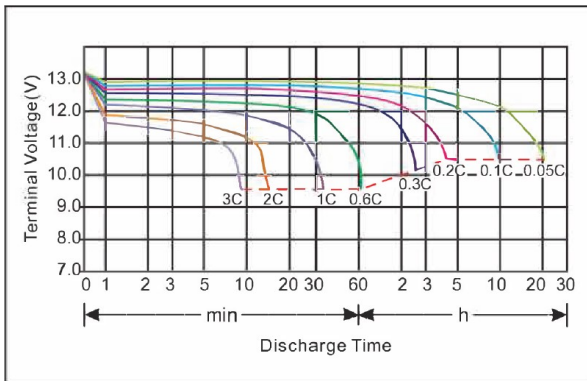
### Outer dimensions (mm)



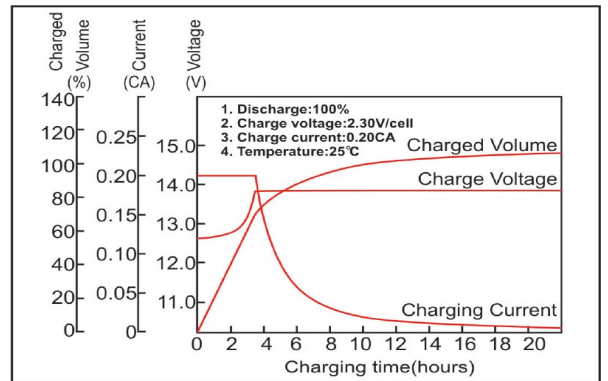
### Terminal type (mm)



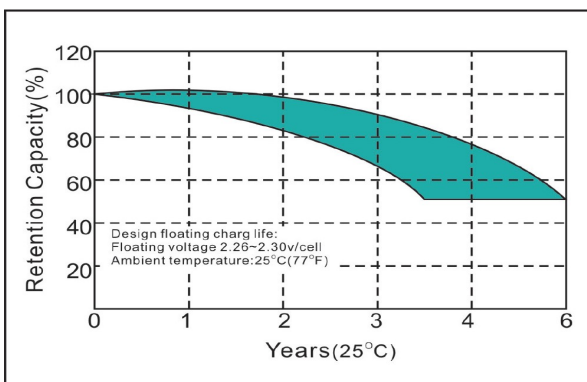
### Discharge Current (25°C)



### Constant voltage charging characteristics



### Cycle service life in relation to the depth of discharge



### Residual Capacity

