

# GTAG12-5.5 12V5.5AH

## AGM BATTERY- AGM SERIES



### Specifications

Nominal Voltage	12V	
Nominal Capacity (20HR)	5.5Ah	
Dimensions	Length	90±1.5mm
	Width	70±1.5mm
	Height	101±1.5mm
	Total height	105±2mm
Approx. Weight	1.60kg±5%	
Terminal Type	F2	
Rated Capacity (25°C)	20HR (0.275A, 10.5V)	5.5Ah
	10HR (0.474A, 10.5V)	4.74Ah
	5HR (0.85A, 10.5V)	4.25Ah
	1HR (2.90A, 10.5V)	2.90Ah
Max. Current	1.65A	
Internal Resistance (Fully charged, 25°C)	Approx. ≤35mΩ	
Operating Temp. Range	Discharge	-15°C~50°C (5°F~122°F)
	Charge	-10°C~50°C (14°F~122°F)
	Storage	-20°C~50°C (-4°F~122°F)
Nominal Operating Temp.	25°C±3°C (77°F±5°F)	
Cyclic Charging Voltage (25°C)	14.60 to 15.00V Temperature compensation : -30mV/°C/Block	
Float Charging Voltage (25°C)	13.60 to 13.70V Temperature compensation : -20mV/°C/Block	
Capacity affected by temperature (20HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	2% of capacity declined per month at (25°C)	
Design Life	3~5 years for floating	

### 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.

### Construction

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	Fiber glass	Sulfuric acid	Rubber	Copper

### Constant current discharge characteristics unit: Ampere/Block (at 25°C, 77°F)

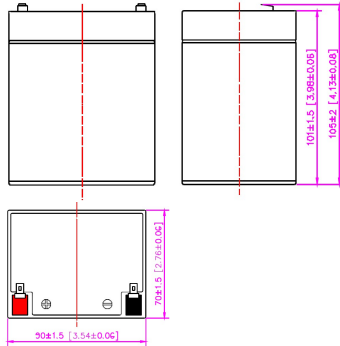
F.V/Time	5min	10min	15min	30min	60min	90min	2h	3h	5h	8h	10h	20h
1.60V	21.42	13.71	10.37	5.61	3.14	2.30	2.03	1.45	0.99	0.69	0.566	0.302
1.67V	19.02	12.79	9.83	5.49	3.12	2.28	2.02	1.44	0.98	0.69	0.557	0.287
1.70V	18.00	12.34	9.59	5.44	3.09	2.27	2.01	1.43	0.98	0.68	0.550	0.279
1.75V	16.29	11.61	9.18	5.35	3.05	2.24	2.00	1.43	0.98	0.68	0.545	0.275
1.80V	14.56	10.83	8.81	5.23	3.03	2.23	1.99	1.42	0.97	0.67	0.536	0.266
1.85V	12.82	10.05	8.35	5.08	2.98	2.20	1.97	1.40	0.97	0.67	0.527	0.257

### Constant power discharge characteristics unit: Watt/Block (at 25°C, 77°F)

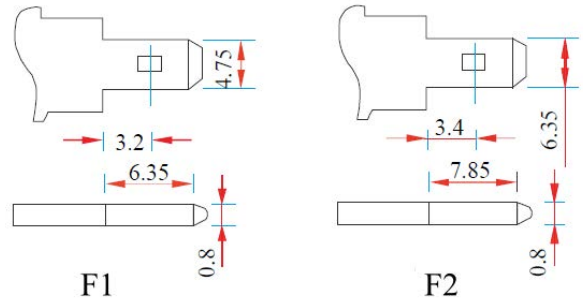
F.V/Time	5min	10min	15min	30min	60min	90min	2h	3h	5h	8h	10h	20h
1.60V	39.62	26.17	20.01	11.18	6.26	4.59	4.06	2.89	1.97	1.39	1.131	0.605
1.67V	35.17	24.42	18.99	10.94	6.22	4.54	4.04	2.88	1.97	1.38	1.116	0.576
1.70V	33.30	23.56	18.54	10.85	6.18	4.54	4.03	2.88	1.97	1.37	1.103	0.561
1.75V	30.14	22.18	17.77	10.66	6.11	4.49	4.01	2.86	1.96	1.36	1.094	0.552
1.80V	26.93	20.69	17.07	10.43	6.07	4.47	3.98	2.84	1.95	1.35	1.077	0.534
1.85V	23.73	19.21	16.20	10.15	5.99	4.43	3.95	2.82	1.94	1.34	1.061	0.517

Note 1: Above characteristics data can be obtained within three charge and discharge cycles.

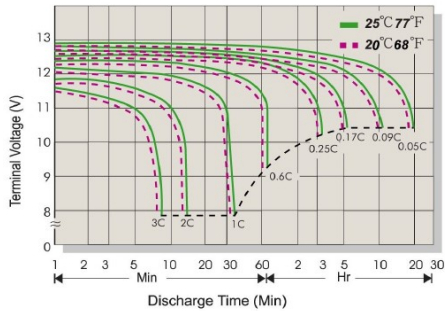
## Outer dimensions (mm)



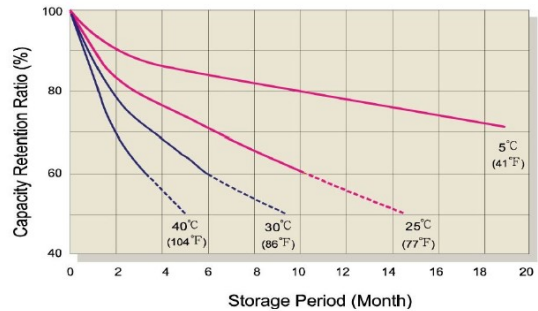
## Terminal type (mm)



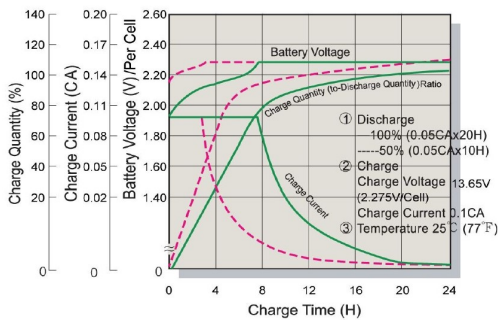
## Terminal Voltage (V) and Discharge Time



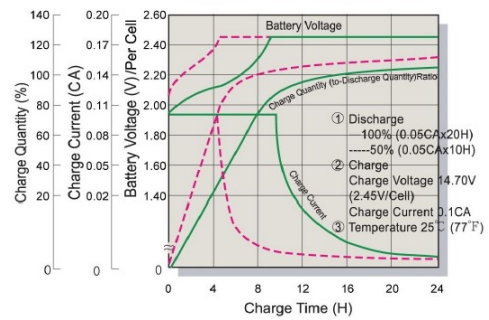
## Capacity Retention Characteristic



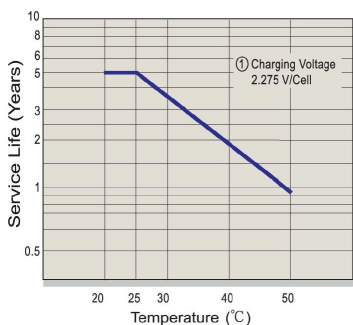
## Battery Voltage and Charge Time for Standby Use



## Battery Voltage and Charge Time for Cycle Use



## Tickle(or Float) Service Life



## Cycle Service Life

