

# GTAG12-9 12V9AH

## AGM BATTERY- AGM SERIES



### Specifications

Nominal Voltage	12V	
Nominal Capacity (20HR)	9Ah	
Dimensions	Length	151±1.5mm
	Width	65±1.5mm
	Height	94±1.5mm
	Total height	98±2mm
Approx. Weight	2.45kg±3%	
Terminal Type	F1/F2	
Rated Capacity (25°C)	20HR (10.5V)	9.0Ah
	10HR (10.5V)	8.12Ah
	5HR (10.5V)	7.98Ah
	1HR (10.5V)	5.45Ah
Max. Current	2.70A	
Internal Resistance (Fully charged, 25°C)	Approx. ≤25mΩ	
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	
	40°C	102%
Capacity affected by temperature (20HR)	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 (A, 25°C)

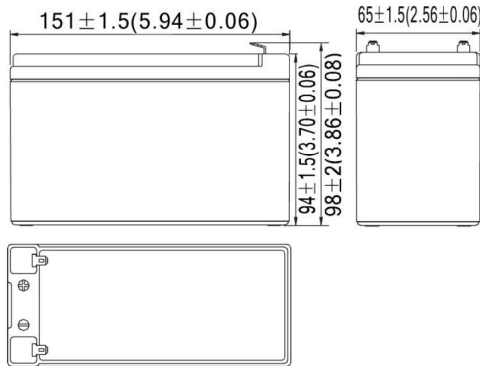
F.V/Time	5min	10min	15min	30min	1hr	2h	3h	4h	5h	6h	10h	20h
1.60V	31.45	21.83	17.46	10.75	6.160	3.306	2.728	2.085	1.803	1.440	0.918	0.494
1.67V	29.78	20.67	16.53	10.18	5.833	3.130	2.584	1.974	1.707	1.364	0.869	0.476
1.70V	28.67	19.90	15.91	9.80	5.615	3.013	2.487	1.900	1.644	1.313	0.837	0.463
1.75V	27.83	19.32	15.45	9.51	5.452	2.926	2.415	1.845	1.596	1.274	0.812	0.450
1.80V	27.32	18.96	15.17	9.34	5.351	2.872	2.370	1.811	1.566	1.251	0.797	0.412

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

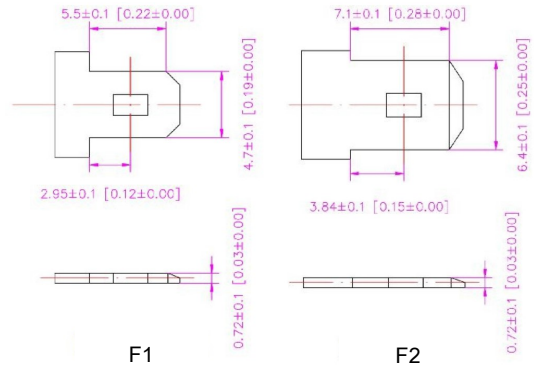
F.V/Time	5min	10min	15min	30min	1hr	2h	3h	4h	5h	6h	10h	20h
1.60V	61.33	42.57	34.05	20.96	12.01	6.45	5.32	4.07	3.52	2.81	1.79	0.93
1.67V	58.07	40.31	32.24	19.85	11.37	6.10	5.04	3.85	3.33	2.66	1.69	0.88
1.70V	55.90	38.80	31.03	19.10	10.95	5.88	4.85	3.71	3.21	2.56	1.63	0.84
1.75V	54.27	37.67	30.13	18.55	10.63	5.70	4.71	3.60	3.11	2.49	1.58	0.82
1.80V	53.28	36.98	29.57	18.21	10.44	5.60	4.62	3.53	3.05	2.44	1.55	0.80

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

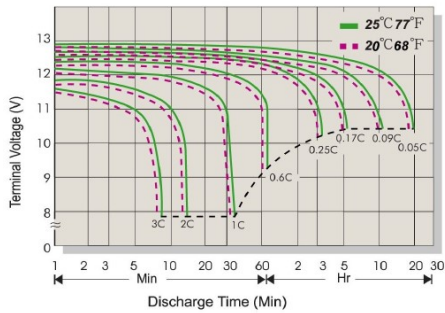
### Outer dimensions (mm)



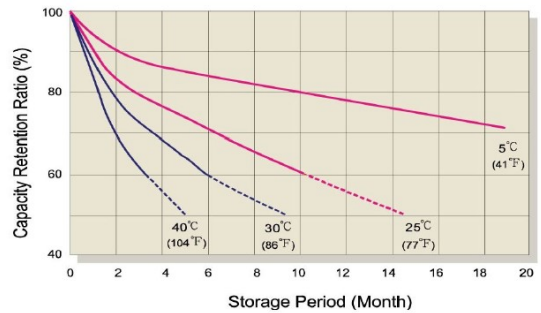
### Terminal type (mm)



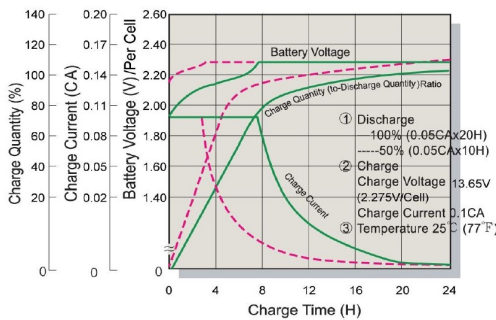
### Terminal Voltage (V) and Discharge Time



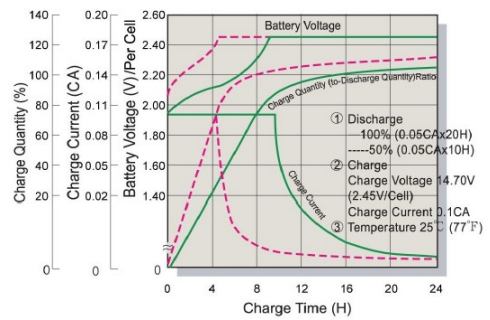
### Capacity Retention Characteristic



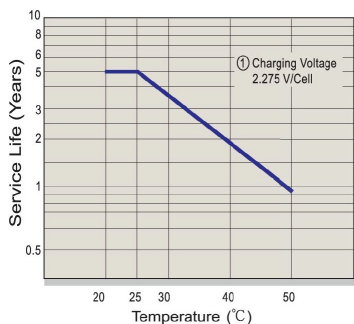
### Battery Voltage and Charge Time for Standby Use



### Battery Voltage and Charge Time for Cycle Use



### Tickle(or Float) Service Life



### Cycle Service Life

