

GTAD12-12 12V12AH

DEEP CYCLE BATTERY - DC SERIES



Specifications

Nominal Voltage	12V	
Nominal Capacity	12Ah	
Dimensions	Length	151±2mm
	Width	98±2mm
	Height	96±2mm
	Total Height	100±2mm
Approx. Weight	3.54kg±3%	
Terminal Type	F2	
Capacity (25°C)	20HR (0.6A)	12Ah
Discharge Current Testing (25°C)	1HR (6.6A)	7.3Ah
	3HR (3A)	9.6Ah
Internal Resistance (Fully charged, 25°C)	Approx. 15mΩ	
Cyclic Charging Voltage (25°C)	Initial Charging Current Less Than 3.6A 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
- ◆ Solar Power System

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	47.6	31.5	23.6	14.3	7.8	4.4	3.45	2.35	1.53	1.26	0.68
10.2V	44.7	28.6	22.2	13.7	7.6	4.4	3.35	2.30	1.49	1.24	0.67
10.5V	42.6	26.7	21.3	13.1	7.4	4.3	3.31	2.25	1.46	1.22	0.66
10.8V	40.8	25.2	20.4	12.7	7.2	4.2	3.25	2.20	1.43	1.20	0.65

Constant power discharge characteristics (W, 25°C)

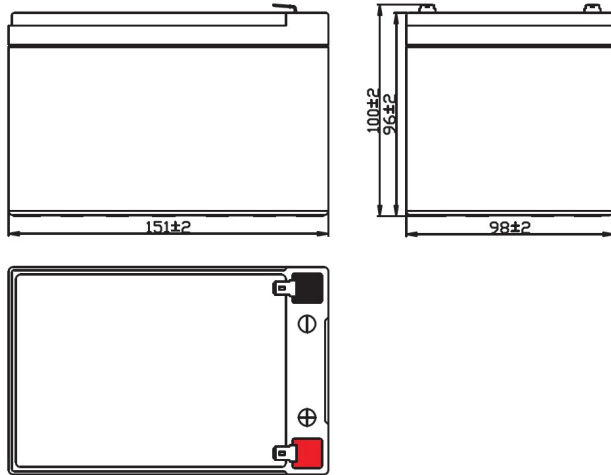
F.V/Time	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	514.1	343.4	259.6	160.2	88.9	50.6	38.3	27.5	18.1	14.9	8.1
10.2V	491.7	317.5	248.6	154.8	86.6	50.6	37.7	26.9	17.6	14.6	8.0
10.5V	472.9	299.0	240.7	149.3	85.1	50.3	37.4	26.9	17.4	14.5	7.9
10.8V	457.0	284.8	232.6	146.1	82.8	49.1	36.9	26.0	17.0	14.3	7.8

Capacity factors with different temperature

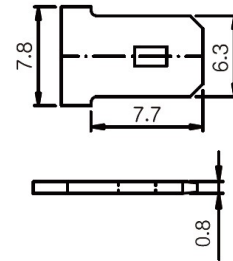
Battery Type	-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Battery	12V	50%	70%	83%	85%	90%	98%	100%	102%	105%

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

Outer dimensions (mm)

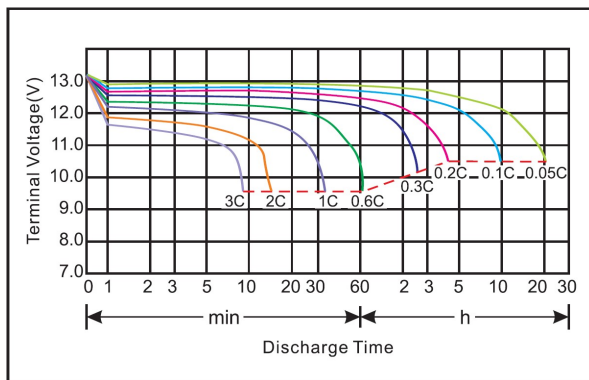


Terminal type (mm)

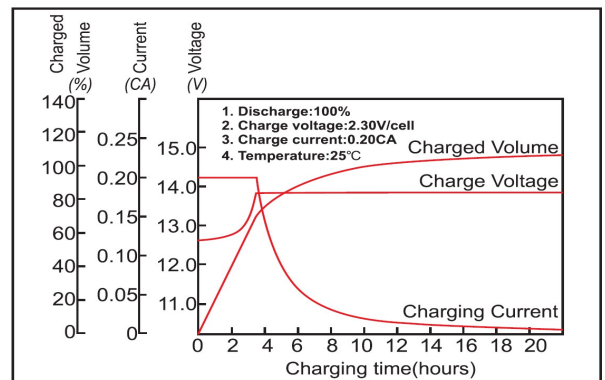


T2

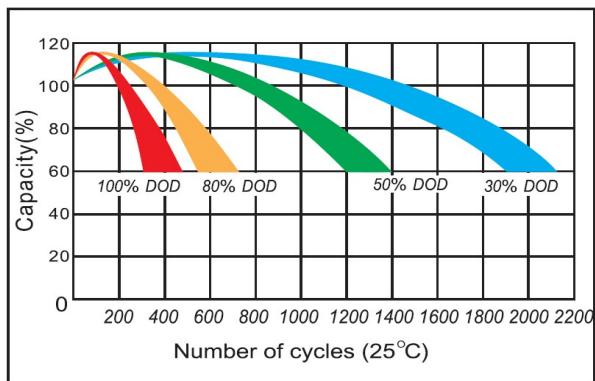
Discharge Current (25°C)



Constant voltage charging characteristics



Cycle service life in relation to the depth of discharge



Residual Capacity

