

GTAD12-20 12V20AH

DEEP CYCLE BATTERY - DC SERIES



Specifications

Nominal Voltage	12V	
Nominal Capacity	20Ah	
Dimensions	Length	181±2mm
	Width	77±2mm
	Height	167±2mm
Approx. Weight	6.08kg±3%	
Terminal Type	T7	
Capacity (25°C)	20HR (1A)	20Ah
	Discharge Current Testing (25°C)	
Internal Resistance (Fully charged, 25°C)	1HR (11A)	13Ah
	3HR (5A)	16.5Ah
	Cyclic Charging Voltage (25°C)	Initial Charging Current Less Than 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	82.5	54.2	41.3	23.7	14.7	7.62	5.62	3.63	2.41	1.97	1.05
10.2V	76.6	50.1	38.2	22.9	13.8	7.45	5.46	3.55	2.37	1.95	1.03
10.5V	74.3	47.9	36.9	22.2	13.5	7.38	5.35	3.49	2.35	1.93	1.02
10.8V	70.9	46.3	35.8	21.4	13.1	7.25	5.22	3.45	2.32	1.91	1.00

Constant power discharge characteristics (W, 25°C)

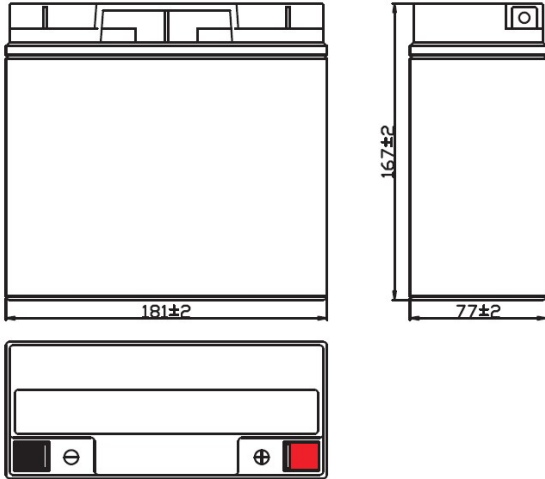
F.V/Time	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	891.0	590.8	454.3	265.4	167.6	87.6	65.2	42.5	28.4	23.2	12.5
10.2V	842.6	556.1	427.8	258.8	157.3	85.7	63.3	41.5	28.0	23.0	12.3
10.5V	824.7	536.5	417.0	253.1	155.3	86.3	62.6	41.2	28.0	23.0	12.1
10.8V	794.1	523.2	408.1	246.1	150.7	84.8	61.1	40.7	27.6	22.7	11.9

Capacity factors with different temperature

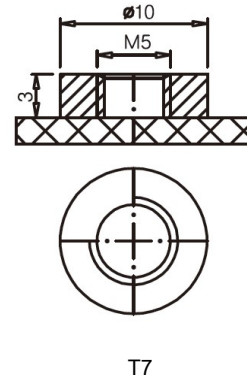
Battery Type	-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Battery	12V	50%	70%	83%	85%	90%	98%	100%	102%	105%

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

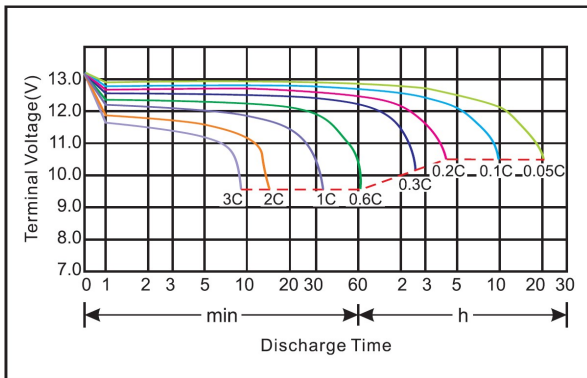
Outer dimensions (mm)



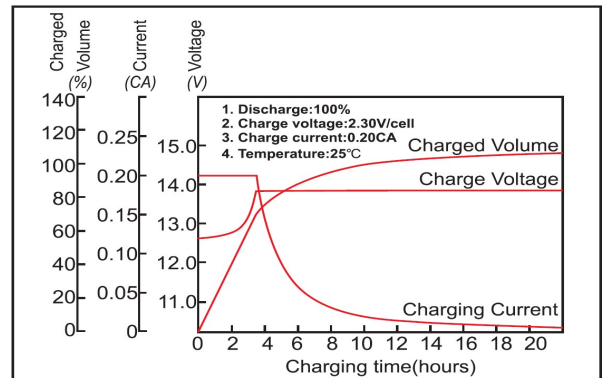
Terminal type (mm)



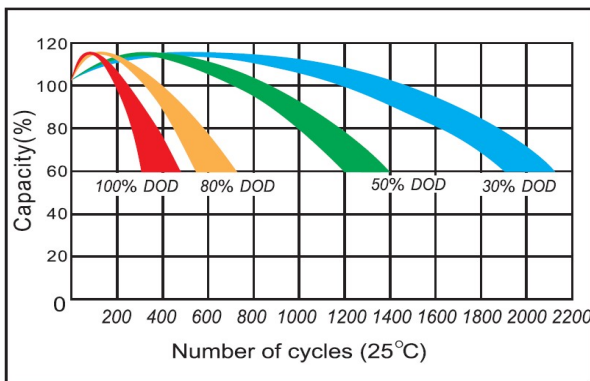
Discharge Current (25°C)



Constant voltage charging characteristics



Cycle service life in relation to the depth of discharge



Residual Capacity

