

## GTAD12-40 12V40AH

## **DEEP CYCLE BATTERY - DC SERIES**



### **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.

### **Specifications**

Nominal Voltage	12V	
Nominal Capacity	40Ah	
	Length	196±2mm
Dimensions	Width	166±2mm
	Height	173±2mm
Approx. Weight	14.3kg±3%	
Terminal Type	T1	
Capacity (25°C)	10HR (4A)	40Ah
Dialog (0500)	1HR (25A)	27Ah
Discharge Current Testing (25°C)	3HR (10.8A)	34Ah
nternal Resistance	Approx. 9mΩ	
(Fully charged, 25°C)		
Cyclic Charging Voltage (25°C)	Initial Charging Voltage 14.6~	g Current Less Than 12A 15.0V
Float Charging Voltage (25°C)	Charge Voltag	e 13.6~13.7V
	40°C	104%
Capacity affected	25°C	100%
by temperature	0°C -15°C	83% 65%
	3 months	Remaining capacity: 91%
Self-discharge (25°C)	6 months	Remaining capacity: 82%
	12 months	Remaining capacity: 65%

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

F.V/Time	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	126.5	84.2	68.1	42.5	25.0	15.1	11.0	7.7	5.1	4.3	2.30
10.2V	111.3	79.5	65.4	40.5	24.0	14.9	10.8	7.6	5.1	4.3	2.27
10.5V	103.5	76.1	63.8	39.3	23.3	14.7	10.7	7.5	5.0	4.2	2.25
10.8V	97.5	72.8	61.5	37.5	22.7	14.6	10.6	7.4	4.9	4.1	2.17

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

F.V/Time	5min	10min	15min	30min	60min	2h	3h	5h	8h	10h	20h
9.60V	1320.6	896.0	735.6	478.5	282.5	174.1	129.8	88.9	58.5	50.4	26.7
10.2V	1175.0	852.2	712.6	458.6	272.8	171.6	127.5	88.4	58.1	50.1	26.4
10.5V	1125.6	823.6	700.5	446.0	265.4	170.3	126.4	87.9	57.8	49.8	26.2
10.8V	1082.5	803.5	690.5	424.0	259.7	168.4	125.3	87.5	57.5	49.5	25.5

### 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%	105%

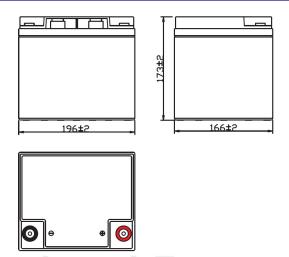
Note 1: The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.



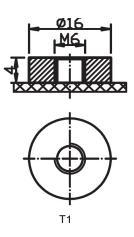
# GTAD12-40 12V40AH

## **DEEP CYCLE BATTERY - DC SERIES**

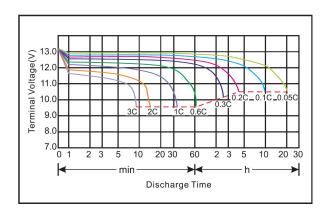
### Outer dimensions (mm)



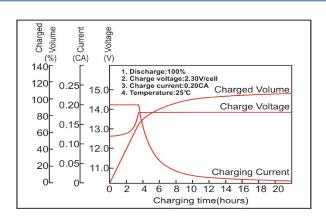
### Terminal type (mm)



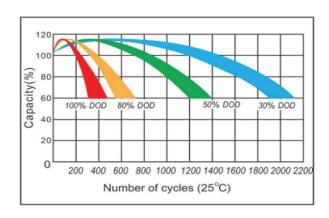
#### Discharge Current (25°C)



### Constant voltage charging characteristics



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



### Residual Capacity (Design life)

