GTAD12-200 12V200AH

DEEP CYCLE BATTERY - DC SERIES



Specifications

Nominal Voltage	12V	
Nominal Capacity (10HR)	200Ah	
Dimensions	Length Width Height Total height	522±2mm 238±2mm 218±2mm 222±2mm
Approx. Weight	62.5kg±3%	
Terminal Type	T16	
Rated Capacity (25°C)	10HR (10.8V) 3HR (10.8V) 1HR (10.5V)	200Ah 150Ah 110Ah
Max. Discharge Current	1400A (5 sec.)	
Max. Charging Current	60A	
Internal Resistance (Fully charged, 25°C)	Approx. 3mΩ	
Operating Temp. Range	Discharge Charge Storage	-15°C~50°C (5°F~122°F) -10°C~50°C (14°F~122°F) -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	
Float Charging Voltage (25°C)	13.60 to 13.70V Temperature compensation: -18mV/°C	
Capacity affected by temperature (10HR)	40°C 25°C 0°C -15°C	102% 100% 85% 65%
Self-discharge (25°C)	3 months 6 months 12 months	Remaining capacity: 91% Remaining capacity: 82% Remaining capacity: 65%
Design Life	10 years for floating (25°C)	

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.

Construction

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

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

F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	343	205	126	74.5	53.7	42.9	36.6	31.8	25.2	20.8	11.0
9.90V	334	201	124	74.1	53.4	42.6	36.4	31.6	25.0	20.7	11.0
10.2V	322	195	121	73.4	53.0	42.3	36.2	31.4	24.9	20.7	11.0
10.5V	311	190	117	72.3	52.6	42.0	35.9	31.2	24.7	20.5	10.9
10.8V	295	183	113	70.5	51.1	40.8	34.8	30.3	23.9	20.4	10.8

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

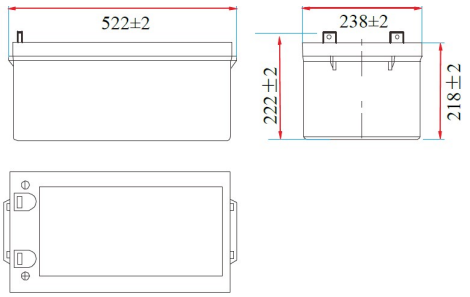
F.V/Time	15min	30min	60min	2h	3h	4h	5h	6h	8h	10h	20h
9.60V	3763	2300	1437	863	631	504	433	376	299	248	132
9.90V	3673	2254	1416	858	628	501	430	374	297	247	132
10.2V	3537	2185	1380	850	623	498	427	372	295	247	131
10.5V	3417	2132	1337	838	619	494	424	369	293	245	131
10.8V	3236	2054	1293	816	600	479	412	358	284	244	130

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

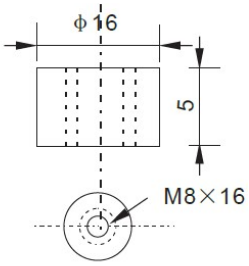
GTAD12-200 12V200AH

DEEP CYCLE BATTERY - DC SERIES

Outer dimensions (mm)

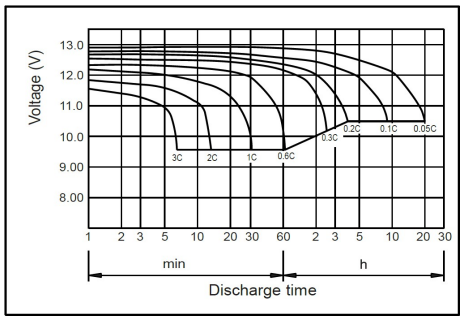


Terminal type (mm)

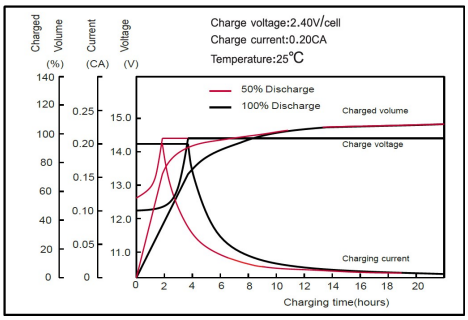


T16

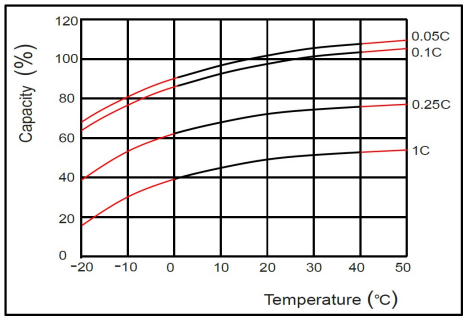
Discharge characteristics (25°C)



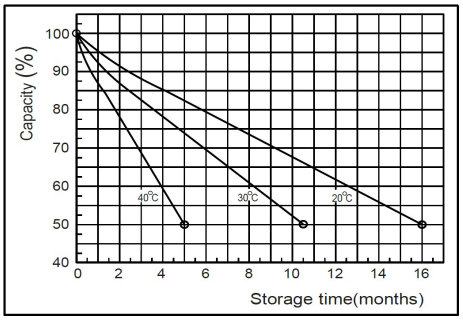
Charging characteristics (25°C)



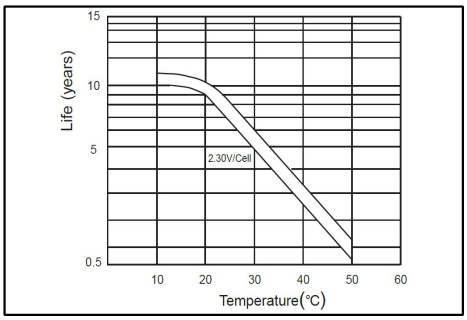
Temperature effects on capacity



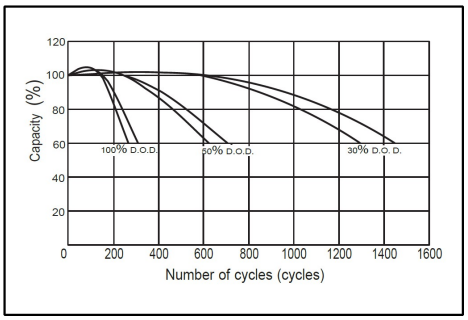
Self-discharge characteristics



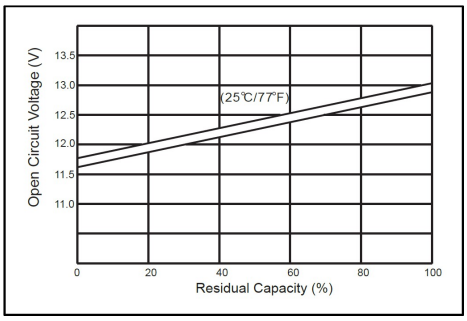
Floating life on temperature



Cycle life on D.O.D (25°C)



Relationship for OCV and capacity (25°C)



Relationship for charging voltage and temperature

