

**SPECIFICATIONS**

Item	NSAG 12-200
Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah@20hr-rate to 1.75V per cell @25°C
Weight	Approx. 60.0 Kg
Max. Discharge Current	2000 A (5 sec)
Internal Resistance	Approx. 5.7 mΩ
Operating Temperature Range	Discharge: -40°C~60°C Charge:-20°C~50°C Storage: -40°C~60°C
Normal Operating Temperature Range	25°C±5°C
Float charging Voltage	13.6 to 13.8 VDC/unit Average at 25°C
Recommended Maximum Charging Current Limit	40A
Equalization and Cycle Service	14.2 to 14.4VDC/unit Average at 25°C
Self Discharge	NSAG Valve Regulated Lead Acid (VRLA) batteries can be stored for more than 6 months at 25°C. Self-discharge ratio less than 3% per month at 25°C. Please charge batteries before using.
Terminal	Terminal F16
Container Material	A.B.S. (UL94-HB), Flammability resistance of UL94-V1 can be available upon request.

## NSAG 12-200

### Gel Deep Cycle Battery

DG (Deep Cycle GEL ) series is pure GEL battery with 12 years floating design life , it is ideal for standby or frequent cyclic discharge applications under extreme environments. By using strong grids, high purity lead and patented Gel electrolyte, the DG series offers excellent recovery after deep discharge under frequent cyclic discharge use, and can deliver 400 cycles at 100% DOD. Suitable for solar, CATV, marine , RV and deep discharge UPS, communication , and telecommunication , etc.

**Constant current Discharge Characteristics: A (25°C)**

F.V/Time	30MIN	1HR	2HR	3HR	5HR	8HR	10HR	20HR
10.8V	180.7	112.2	67.59	46.62	31.31	21.58	18.29	9.699

**Charge the batteries at least once every six months, if they are stored at 25°C.**

**Charging Method:**

Constant Voltage	- 0.2Cx2h+2.4-2.45V/cellx24h,Max. Current 0.3CA
Constant Current	- 0.2Cx2h+0.1CAx12h
Fast	- 0.2Cx2h+0.3CAx4h

**MAINTENANCE & CAUTIONS**

Cycle service
⊗ Avoid battery over discharge, especially battery series connection use.
⊗ Charged with recommend voltage, ensure battery can be full recharged.
In general, recharge capacity should be 1.1-1.15 times discharge capacity.
⊗ Effect of temperature on cycle charge voltage: -4mV/°C/Cell.
⊗ There are a number of factors that will affect the length of cyclic service.
The most significant are depth of discharge, ambient temperature, discharge rate, and the manner in which the battery is recharged.
Generally speaking, the most important factors is depth of discharge.

**APPLICATION**

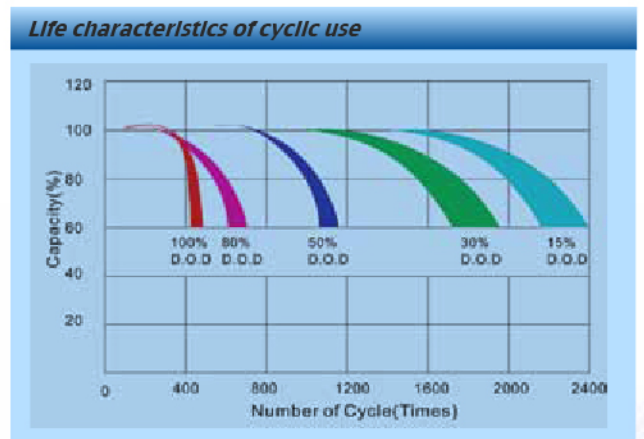
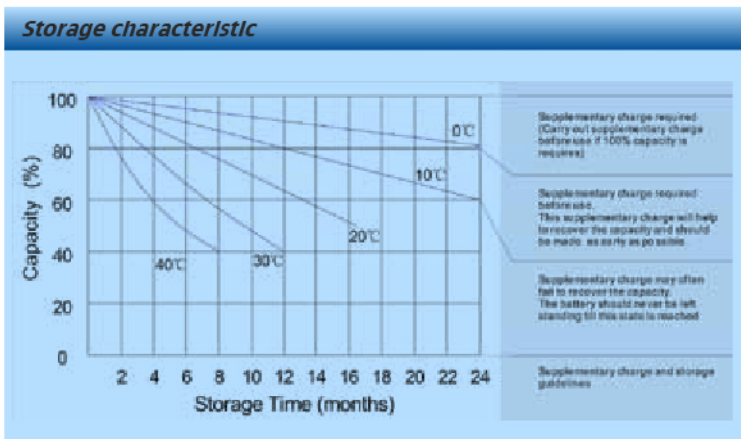
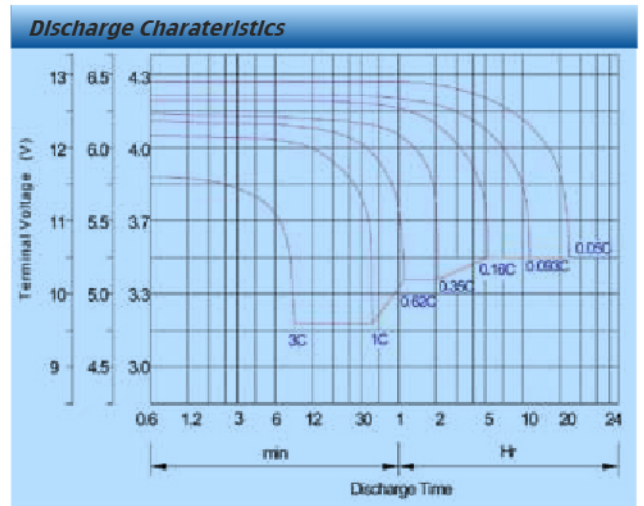
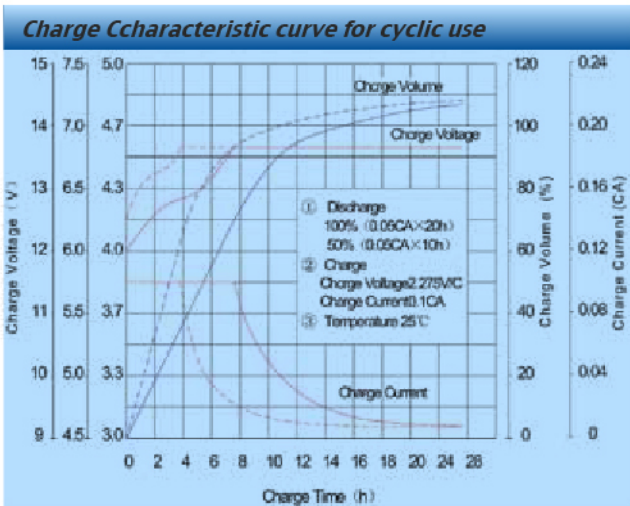
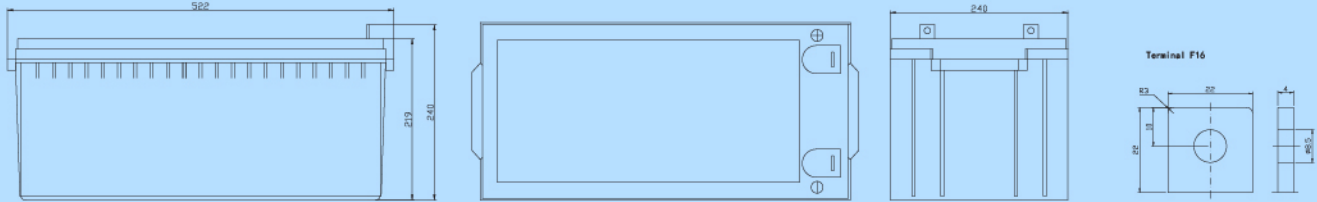
- Telecom
- UPS
- Communication Equipment
- Medical Equipment
- Control Equipment



# INDUSTRIAL BATTERY

## DIMENSION

Unit: mm      Dimension: 522 (L) × 240 (W) × 219 (H)



## CAPACITY FACTORS WITH DIFFERENT TEMPRATURE

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%
	2V	60%	75%	85%	88%	92%	99%	100%	103%	105%	106%