

SPECIFICATIONS

Item	NSAG 12-100
Cell per unit	6 cell
Nominal voltage	12 V
Capacity	100Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 35.5 Kg(Tolerance±2%)
Max. Discharge current	1200 A (5 sec)
Internal resistance	Approx. 5.5 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 (average @ 25°C)	13.6to 13.8 VDC/unit Average @ 25°C
Recommended Maximum charging current limit	24A
Equalization and cycle service (average @ 25°C)	14.2 to 14.4VDC/unit Average @ 25°C
Self discharge	NSAG batteries can be stored for more than 6 months @ 25°C Self-discharge ratio less than 3% per month @ 25°C. Please charge batteries before using
Terminal	Terminal F5/F12
Container and cover material	A.B.S. UL94-HB, UL94-V0 Optional.

NSAG 12-100

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.

APPLICATION

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

Constant current Discharge Characteristics: A (25°C)

F.V/Time	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
10.8V	103.0	63.98	38.53	26.57	21.79	17.84	12.30	10.42	5.42

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 0.2C
Constant Current	-0.2Cx2h+0.1Cx12h
Fast	-0.2Cx2h+0.2Cx6h

MAINTENANCE & CAUTIONS
Float Service:

※ Every three months, recommend equalization charge for one time.

Equalization charge method:

Discharge: 100% rate capacity discharge.

Charge: Max. current 0.2C₁₀, constant voltage 2.4-2.5V /Cell charge 24h.

※ Effect of temperature on float charge voltage: -3mV/°C/Cell.

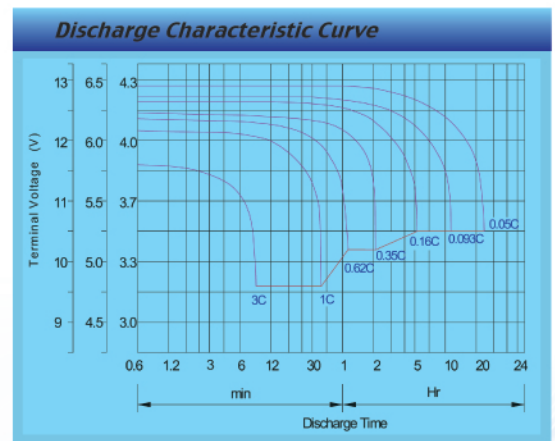
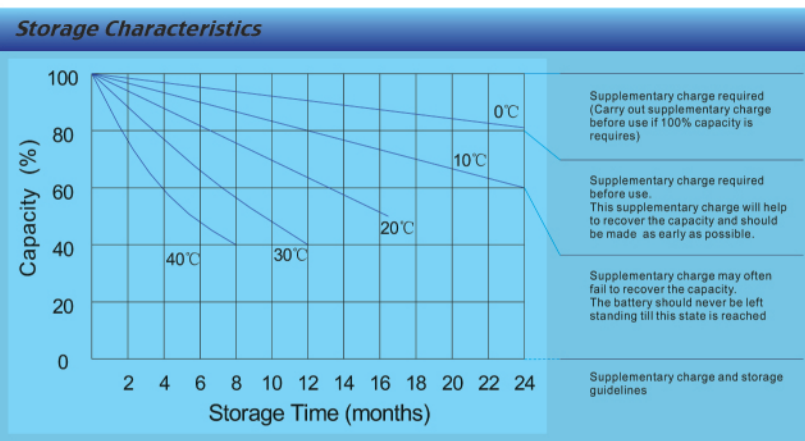
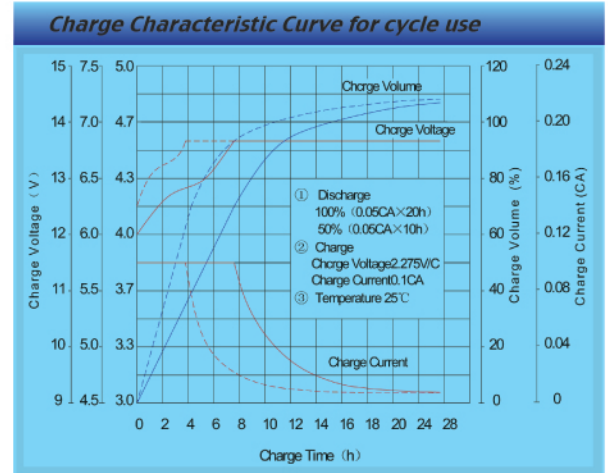
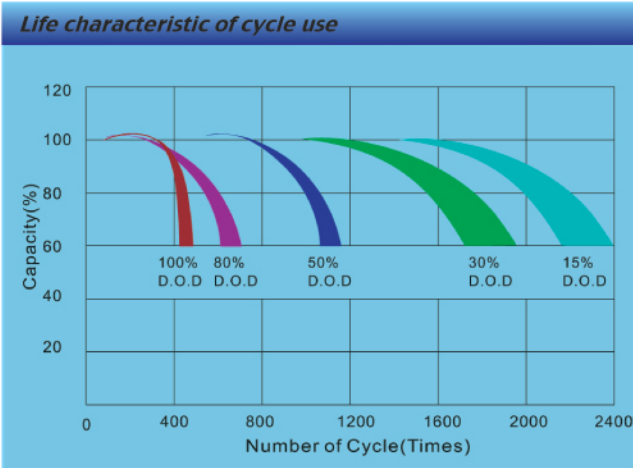
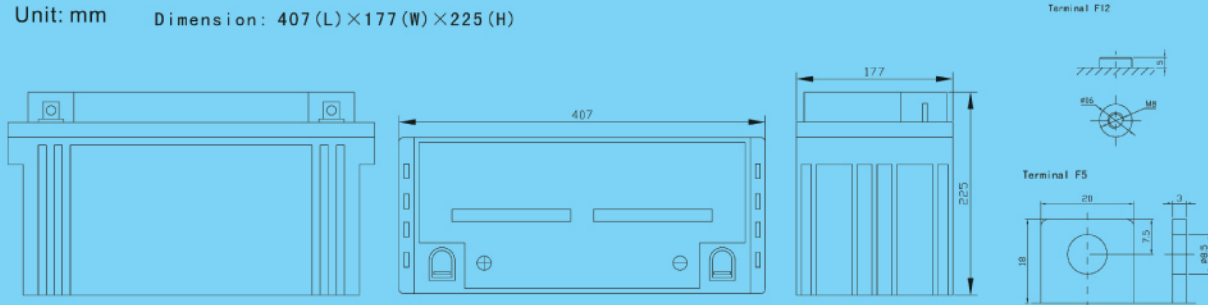
※ Length of service life will be directly affected by the number of discharge cycles, depth of discharge, ambient temperature and charging voltage.



INDUSTRIAL BATTERY

DIMENSION

Unit: mm Dimension: 407 (L) × 177 (W) × 225 (H)



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
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%