

NG-27 / 12V MOTIVE POWER LEAD-ACID GEL BATTERY

Advanced nanotechnology enhances current acceptance, extends cycle life, supports partial state of charge operation, and enables fast charging potential.





High Charge Efficiency

o-o Carbon





Outperforms AGM



Low Cost of Ownership



High

Cycling

Ability



No

Electrolyte

Starvation





No Acid Stratification

FEATURES

Maintenance-free fumed silica GEL technology with microporous separators

Lead crystal and long chain additives to ensure consistent capacity and performance

Reinforced active material

700+ cycles (DIN EN 60254-1) (IEC 254-1)

High-class patented safety valve

Low resistance / high current acceptance

99% recyclable

Low self discharge rate of <3%/month

Classified as a non-spillable battery is not restricted for transportation by:

- Air (IATA/ICAO provision 67)
- Ground (STB, DOT-CFR-HMR49)
- Water (IMDG amendment 27)



Compliant with EN60254-1&2 & IEC254-1/2, ISO 7176-25 & SAE J 1495

APPLICATIONS

Electric vehicles Cleaning machines Aerial work platforms Mobility devices

Universal for cyclic use applications

SPECIFICATIONS

ELECTRICAL

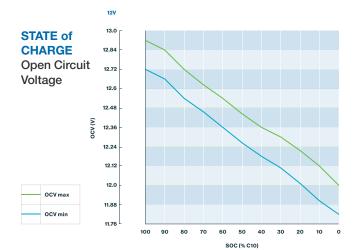
Voltage	12V				
Rated Capacity @ 25°C	87Ah C ₂₀	81Ah C ₁₀	78Ah C₅	73Ah C₃	
	to 1.75vpc	to 1.75vpc	to 1.70vpc	to 1.70vpc	
Reserve Capacity @ 25°C	165 minutes to 1.75vpc (25A load)				

Initial capacity: ~ 90% Capacity after ~ 30 cycles: 100% Capacity development: ~ 110-115%

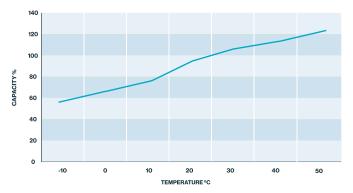
ENVIRONMENTAL

Self Discharge	Less than 3% per month {20°C/68°F)				
Charge Temperature	Min: -10°C (14°F) / Max: 50°C (122°F)				
Below 15°C or above 35°C, a temperature compensated charger must be used					
Discharge Temperature**	Min:-40°C (-40°F) I Max: 50°C (122°F)				
Storage	Min:-20°C (-4° F) / Max: 60°C (140°F)				

After 24 months at 20°C a fully charged battery will lose 50% capacity



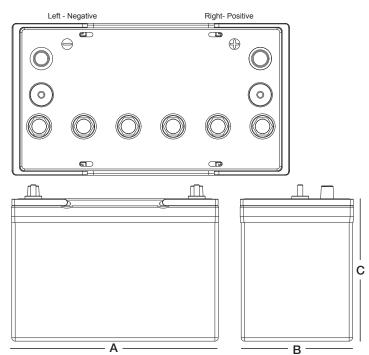
CAPACITY vs TEMPERATURE



MECHANICAL

Industry Reference		BCI 27	
Length (A)	12.1 in		307 mm
Width (B)	6.6 in		168 mm
Height (C)	8.3 in		211 mm
Terminal Height	0.8 in		20 mm
Weight	70.5 lbs		32 kgs
Dual Terminal			
Auto (-/+)	Std		Std
Stud (-)	5/16 in		8 mm
Stud (+)	3/8 in		9.5 mm
Torque Nm / in-lb		8/71	

Tolerance of +/-2%



CHARGING REQUIREMENTS

Recommended: IUU - 12-18% C5 to 2.40vpc IUI -16-18% C5 to 2.35vpc

Maximum bulk charge rate is 0.3C5

Do not discharge or charge batteries in a non-ventilated compartment. Batteries can be installed vertically or horizontally. Do not invert. Continual overcharging or undercharging will damage the battery and shorten life. Ensure battery is charged to 100% at least once per week. Batteries used at temperatures above 25°C can result in reduced life. Additional details contained in Installation, Operation, and Maintenance Manual

Specifications subject to change without notice.