

ACTIVE CARBON PREMIUM BATTERY

# newmax®



## SG<sup>+PLUS</sup> SERIES

### 20% LONGER BATTERY LIFE

### SOLAR GEL DEEP CYCLE

New SG +PLUS series is genuine Maintenance-Free Sealed batteries developed specifically to satisfy the need for frequent deep cycles from Solar PV, solar streetlight and energy storage system. The brand new SG+PLUS series is a high quality product that has significantly improved life expectancy to meet the rapid changes in solar market and customers' needs.



## WHAT'S THE DIFFERENCE?



### Premium ActiveCarbon™

In every Newmax battery, proprietary micro carbon additive is used in the active material for both positive and negative plates to enhance charge acceptance and cycle endurance. ActiveCarbon™ works to strengthen charge pathways to improve performance consistency and enhance performance at partial state of charge (PSoC) environment.



### MaxPress™ Grid Technology

Patent pending grid compressing technology which increases the density of the lead grain of the grids. The grain density is typically 400% greater than that of the conventional casting method. This up-to-date grid technology enables our batteries to survive even the toughest deep discharge and PSoC applications.



### ThixoPure™ GEL Technology

Application of refined pure thixotropic colloidal silica GEL technology to battery electrolyte has greatly increased the cycle life by both preventing plate stratification and providing extra temperature protection against heat and cold. We are the first Korean company to successfully commercialize the GEL technology in the VRLA battery industry.



### FlexSealing™ Anti Explosion Filter

Patent pending proprietary cap filtering and sealing technology. Battery cell caps are sealed simultaneously using specially designed o-rings and explosion filters to prevent leakage and gassing more effectively than ever before.



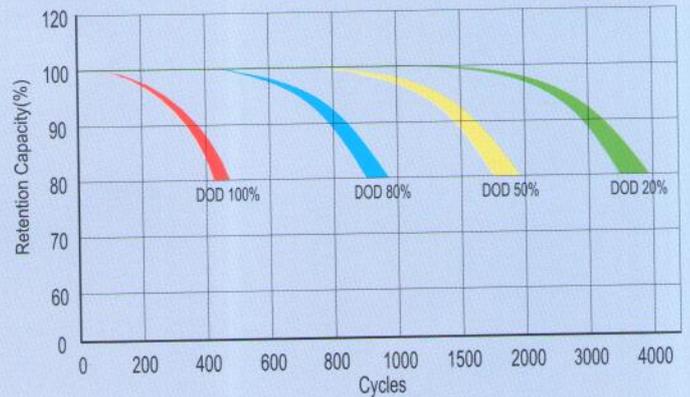
### Highly Resistive Heat Protection Case

Specially formulated heat and flame resistant polypropylene case material is used to effectively block ambient heat thus preventing heat related malfunctions such as thermal runaway. This proprietary high rigidity case material has heat deflection rating of 140°C and complies to RoHS Compliant EU Directive 2002/95/EC. Additional UL94-V0 protection option also available.

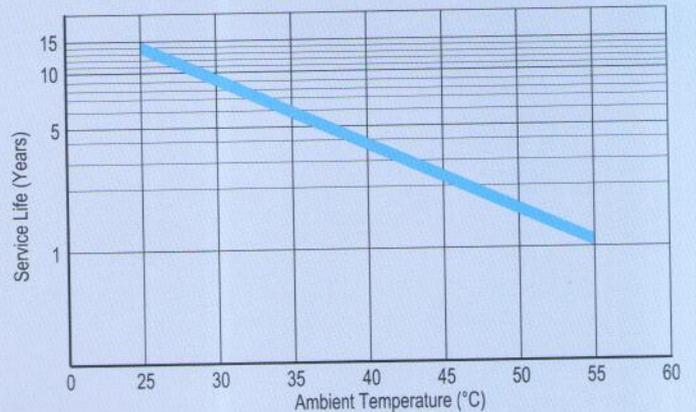
## FEATURES AND BENEFITS

### Cycle life characteristics (@25°C)

Discharge Current : 0.17C Ampere (cut-off 1.70V/cell) Charging Current : 2.40V/cell, MAX 0.25CA  
Charging : 120% of discharge capacity(25°C)



### Floating Life Characteristics



## 12 Voltage SG +PLUS Series Battery Specifications

Battery Type	Nominal Voltage	Capacity (Ampere)	Dimension (mm)				Weight (kg)	packing /pallet
			Length	Width	Height	T.Height		
SG 800H	12	90	371	174	205	219	26.6	60pcs
SG 1000H	12	100	371	174	205	219	30.6	60pcs
SG 1200H	12	120	371	174	205	219	32.7	50pcs
SG 1500H	12	150	524	241	215	221	43.3	36pcs
SG 2000H	12	200	524	241	215	221	57.4	30pcs
SG 2200H	12	220	524	241	215	221	60.0	30pcs



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