ACTIVE CARBON PREMIUM BATTERY EUITOX

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NEWMAX Solar gel batteries are true maintenance-free sealed batteries engineered specially to satisfy the need for frequent deep cycles from PVs and renewable energy storage applications. We are confident that our technology-intensive, long-lasting, and environment friendly SG batteries will provide stability and efficiency for your everyday renewable energy needs.

SG1200H (12V120AH/C10) **ACTIVE CARBON** Premium Battery

Longer Life 02

esign

M1-02

with the GEL electrolyte to reduce need maintenance until the end the sulfation effect significantly.

01

Maintenance Free 03

High density, anti-corrosion lead NEWMAX battery has a gas Gel Technology is applied to Specially designed anticalcium alloy is used in harmony recombinig design that doesn't prevent leakage. They won't spill even if the battery is tipped upside down.

explosion filter and safety valves prevent gas leakage when overcharged.

WM BAT

Safety

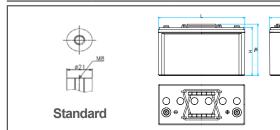
	General Feat	ures					
	♦ Plate	Paste type with Carbon Active Material					
	 Battery type 	Sealed VRLA Maintenance Free Type / Non-spillable construction dea					
	 Case/cover mat 	High-stiffness engineering PP plastic (Heat Deflection Temp. 140° RoHS Compliant EU Directive 2002/95/EC					
	 Safety performance 	Safety valve & flame arrestor installation for explosion proof.					
		ility and low self discharge rate harge recovery performance					

Flexibility design for multiple install positions (Position Free, GEL Technology)

The color and the printed specifications of the products are subject to change without prior notice

• Designed in accordance with and published in compliance with applicable IEC and BS EN, KS stds. •IEC 60896-21/22 Stationary lead-acid batteries - Valve regulated types

•BS EN 61427 Secondary cells and batteries for photovoltaic energy systems (PVES) •KS C 8518 Stationary sealed lead-acid batteries - Valve regulated types



Technical Features



of its life.

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

Leak Free 04

MaxPress[™] Grid Technology



MAXPRESSTM GITLE 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 slica 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. GEL

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 mailunctions such as themail 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.

Operating temperature range

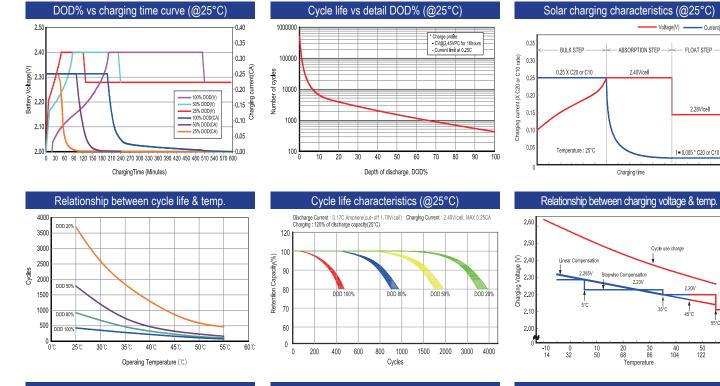
Discharge	Charge	Storage
-20°C ~ 60°C	0°C ~ 50°C	-20°C ~ 60°C

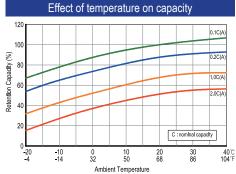
Battery Model	SG 1200H (12V120AH / 10 HOUR RATE)							
Nominal Canacity (@25°C)	C ₁₀ (1.80VPC)	C ₅ (1.70VPC)	C ₃ (1.65VPC)	C ₁ (1.60VPC)				
Nominal Capacity (@25°C)	120Ah	109Ah	100Ah	79Ah				
Dimonoiono (mm/inch)	Length	Width	Height	Total Height				
Dimensions (mm/inch)	524(20.63)	241(9.49)	215(8.46)	221(8.70)				
Weight (kg/lbs)	32.5kg(71.65lbs)±3%							
Internal resistance (mΩ)	≤3.60mΩ(25°C, 77°F)							
Max. discharge current (5 sec.)	960 A	Max. discharge c	urrent(continuous)	360 A				
Capacity affected by	@30°C(86°F)	@25°C(77°F)	@10°C(50°F)	@-10°C(14°F)				
Temperature	105%	103%	95%	78%				
Self-discharge (@25°C,77F)	After 1 month ≤2%	After 3 m	onth ≤6%	After 6 month ≤12%				
Max. short duration discharge current (0.1sec)	2,280A±10%							
Recommended charging (@25°C)	1 st Bulk Step	2 nd Absor	ption Step	3 rd Floating Step				
Solar system	0.20~0.25C CC	2.40V/cell CV,(c	cut-off A : 0.005C)	2.28V/cellCV				



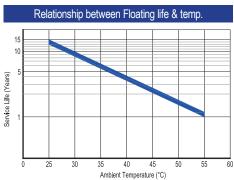
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Current(A

2.28V/ce

2.7

2,6

2.5

24

23

2.2

2,11\

60 (°C) 140 (°F)

50 122

V//cell)

Sattery cell voltage

Constant current discharge ratings –Amperes per cell @ 25°C

V/cell	Minutes					Hours						
v/ceii	5	10	15	20	30	40	1	3	5	8	10	20
1.85V	107	105	103	100	85.1	76.9	60.9	28.4	18.7	12.5	11.0	5.95
1.80V	157	150	133	120	101	87.4	68.2	30.7	20.4	13.3	12.0	6.49
1.75V	182	168	146	129	105	92.9	71.5	31.0	20.9	13.6	12.0	6.49
1.70V	206	183	157	137	109	96.0	73.9	32.0	21.6	14.0	12.0	6.50
1.65V	230	199	168	145	115	98.7	76.2	33.1	22.0	14.2	12.1	6.53
1.60V	258	218	181	155	122	103.5	78.9	34.2	22.8	14.5	12.2	6.60

Constant power discharge ratings –Watts per cell @ 25°C

V/cell		Minutes					Hours					
v/ceii	5	10	15	20	30	40	1	3	5	8	10	20
1.85V	199	194	191	185	160	145	115	54.5	36.1	24.3	21.4	11.6
1.80V	282	270	240	218	185	162	128	58.6	39.0	25.8	23.3	12.6
1.75V	318	299	261	233	191	172	134	59.1	40.0	26.2	23.3	12.6
1.70V	350	313	280	246	198	176	137	60.8	41.2	27.1	23.3	12.6
1.65V	385	343	295	258	206	179	143	62.7	42.2	27.6	23.5	12.7
1.60V	420	366	312	272	218	187	145	64.5	43.2	27.7	23.8	12.8

KOREA BATTERY CO., LTD. Attempts to ensure the correctness of the product description and data contained herein.

We reserve the right to change designs, specifications at any time without notice or obligation. It is the responsibility of the reader of this information to verify any and all information presented herein.