

INDUSTRY LEADER IN VRLA BATTERIES



Safety

OPC150-12

(12V100AH/C₂₀)



Power Lead carbon Premium Battery



Longer Life 02



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.

High density, anti-corrosion lead NEWMAX battery has a gas Gel Technology is applied to Specially designed anti-explosion

Maintenance Free 03

*** The color and the printed specifications of subject to change without prior notice.	wi	licium alloy is used in harmony th the GEL electrolyte to reduce e sulfation effect significantly.	recombinig design that doesn't need maintenance until the end of its life.	prevent leakage. They won't spill even if the battery is tipped upside down.	filter and safety valves prevent gas leakage when overcharged.				
	ree / Non-spillable construction design	Next Protection Case	Fanrenheit-Schurz TM Hea Specially Formulated heat and flame preventing heat related malfunctions near deflection rating of 140°C.	Protection Case resistant PP case material is used such as thermal tunaway. This prop	to effectively block ambient heat thus crietary high rigidity case material has				
	PP plastic (Heat Deflection Temp., 140 ctive 2002/95/EC dor installation for explosion proof.		MaxPress TM Grid Techno Patent pending and compressing tecl lehsity is typically 400% greater than anables our batteries to survive even	logy mology which increase the density o titlet of the conventional casting me the loughest deep discharge and PS	of the lead grain of the grids. The grain those this up to date grid technology occupantications.				
❖ Flexibility design for multiple install positions (Position From the Position	e with applicable IEC and BS EN, KS st	ds.	ngreased the cycle life by both pr	eventing plate stratification and prost Korean company to successfully	y to battery electrolyte has greatly oxiding extra temperature protection commercialize the GEL technology in				
	voltaic energy systems (PVES)				cell caps are sealed simultaneously nd gassing more effectively than ever				
₩5	## T	KOSATT	Active Carbon TM h every NEWMAX battery, proprietal negative plates to enhance charge enhance pathways to improve perfehance(PSoC) environment.	y active carbon additive is used in the acceptance and cycle endurance. A commance consistency and enhance	e active material for both positive and citive carbon works to strengthen be performance at partial state of				
•••		Operating to	Operating temperature range						
	· ·	Disal			o.				
Standard © o		_	harge	Charge	Storage				
Standard		-03 -20℃	~60°C	Charge 0°C~50°C	Storage -20°C~60°C				
Standard © ○	SG 1500H (12	-20°C	~60℃ JR RATE)	0°C~50°C	-20°C~60°C				
	SG 1500H (12 C ₂₀ (1.80VP	-20°C 2V150AH / 20 HOU C) C ₁₀ (1.	~60°C JR RATE) 80VPC)	0°C~50°C C ₆ (1.70VPC)	-20°C~60°C C ₄ (1.60VPC)				
Battery model	SG 1500H (12 C ₂₀ (1.80VP	-20°C 2V150AH / 20 HOU C) C ₁₀ (1.	~60°C JR RATE) 80VPC)	0°C~50°C C ₅ (1.70VPC) 126Ah	-20°C~60°C C ₄ (1.60VPC) 91Ah				
Battery model	SG 1500H (12 C ₂₀ (1.80VP) 150Ah Length	-20°C 2V150AH / 20 HOU C) C ₁₀ (1.	ACO°C JR RATE) 80VPC) 9Ah	0°C~50°C C ₅ (1.70VPC) 126Ah Height	-20°C~60°C C₁ (1.60VPC) 91Ah Total Height				
Battery model Capacity (@25°C) Dimensions (mm/inch)	SG 1500H (12 C ₂₀ (1.80VP	-20°C 2V150AH / 20 HOU C) C ₁₀ (1.	~60°C JR RATE) 80VPC) 9Ah dth 9.49)	0°C~50°C C ₆ (1.70VPC) 126Ah Height 215(8.46)	-20°C~60°C C ₄ (1.60VPC) 91Ah				
Battery model Capacity (@25°C) Dimensions (mm/inch) Weight (kg/lbs)	SG 1500H (12 C ₂₀ (1.80VP) 150Ah Length	-20°C 2V150AH / 20 HOU C) C ₁₀ (1.	~60°C JR RATE) 80VPC) 9Ah dth 9.49) 42.6kg(93.92lbs)	0°C~50°C C ₅ (1.70VPC) 126Ah Height 215(8.46)	-20°C~60°C C ₁ (1.60VPC) 91Ah Total Height				
Battery model Capacity (@25°C) Dimensions (mm/inch) Weight (kg/lbs) Internal resistance (mO)	SG 1500H (12 C ₂₀ (1.80VP) 150Ah Length 524(20.63)	-20°C 2V150AH / 20 HOU C) C ₁₀ (1. 133 W) 241(~60°C JR RATE) 80VPC) 9Ah dth 9.49) 42.6kg(93.92lbs)	0°C~50°C C ₆ (1.70VPC) 126Ah Height 215(8.46) ± 3%	-20°C~60°C C₁ (1.60VPC) 91Ah Total Height 221(8.70)				
Battery model Capacity (@25°C) Dimensions (mm/inch) Weight (kg/lbs) Internal resistance (m0) Max. discharge current (5sec)	SG 1500H (12 C ₂₀ (1.80VP 150Ah Length 524(20.63)	-03 -20°C 2V150AH / 20 HOU C) C ₁₀ (1. 138 Wi 241(~60°C JR RATE) 80VPC) 9Ah dth 9.49) 42.6kg(93.92lbs): ≤3.10mΩ (25°C, 7) Max. discharge current(0°C~50°C C ₆ (1.70VPC) 126Ah Height 215(8.46) ± 3% 27°F)	-20°C~60°C C ₁ (1.60VPC) 91Ah Total Height 221(8.70)				
Battery model Capacity (@25°C) Dimensions (mm/inch) Weight (kg/lbs) Internal resistance (mO)	SG 1500H (12 C ₂₀ (1.80VPI 150Ah Length 524(20.63)	-20°C 2V150AH / 20 HOU C) C ₁₀ (1. 13: Wi 241(~60°C JR RATE) 80VPC) 9Ah dth 9.49) 42.6kg(93.92lbs): ≤3.10mΩ (25°C, 7	0°C~50°C C ₆ (1.70VPC) 126Ah Height 215(8.46) ± 3%	-20°C~60°C C ₁ (1.60VPC) 91Ah Total Height 221(8.70)				
Battery model Capacity (@25°C) Dimensions (mm/inch) Weight (kg/lbs) Internal resistance (mΩ) Max. discharge current (5sec) Capacity affected by Temperature	SG 1500H (12 C ₂₀ (1.80VP 150Ah Length 524(20.63)	-03 -20°C 2V150AH / 20 HOU C) C ₁₀ (1. 13! Wi 241(~60°C JR RATE) 80VPC) 9Ah dth 9.49) 42.6kg(93.92lbs): ≤3.10mΩ (25°C, 7) Max. discharge current(0°C~50°C C ₅ (1.70VPC) 126Ah Height 215(8.46) ± 3% 27°F) continuous) @10°C(50°F) 95%	-20°C~60°C C₁ (1.60VPC) 91Ah Total Height 221(8.70) 430 A @-10°C(14°F) 78%				
Battery model Capacity (@25°C) Dimensions (mm/inch) Weight (kg/lbs) Internal resistance (mΩ) Max. discharge current (5sec) Capacity affected by	SG 1500H (12 C ₂₀ (1.80VPl 150Ah Length 524(20.63) 1140 A @30 © (86°) After 1 mt	-03 -20°C 2V150AH / 20 HOU C) C ₁₀ (1. 13! Wi 241(~60°C JR RATE) 80VPC) 9Ah dth 9.49) 42.6kg(93.92lbs): ≤3.10mΩ (25°C, 7	0°C~50°C C ₅ (1.70VPC) 126Ah Height 215(8.46) ± 3% 7°F) continuous) - @10°C(50°F) 95%	-20°C~60°C C ₁ (1.60VPC) 91Ah Total Height 221(8.70) 430 A @-18°C(14°F)				
Battery model Capacity (@25°C) Dimensions (mm/inch) Weight (kg/lbs) Internal resistance (m0) Max. discharge current (5sec) Capacity affected by Temperature Self discharge (@25°C,77F) Max. short duration discharge current	SG 1500H (12 C ₂₀ (1.80VPl 150Ah Length 524(20.63) 1140 A @30 © (86°) After 1 mt	-03 -20°C 2V150AH / 20 HOU C) C ₁₀ (1. 131 Wi 241(~60°C JR RATE) 80VPC) 9Ah dth 9.49) 42.6kg(93.92lbs): ≤3.10mΩ (25°C, 7) Max. discharge current(€ (77°F) 3% After 3 month ≤	0°C~50°C C ₅ (1.70VPC) 126Ah Height 215(8.46) ± 3% 27°F) continuous) @10°C (50°F) 95% 6% A	-20°C~60°C C ₁ (1.60VPC) 91Ah Total Height 221(8.70) 430 A @-10°C(14°F) 78%				

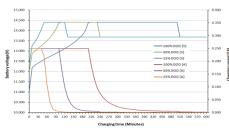


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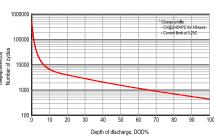
INDUSTRY LEADER IN VRLA BATTERIES

POWERINOX[®]

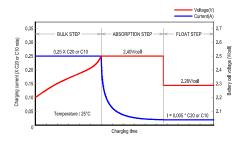
DOD % vs charging time curve (@25°C)



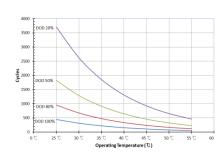
Cycle life vs detail DOD% (@25℃)



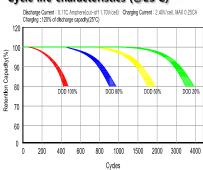
Solar charging characteristics (@25°C)



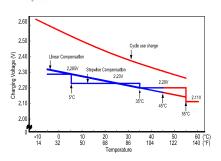
Relationship between cycle life & temp.



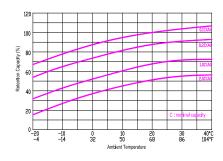
Cycle life characteristics (@25°C)



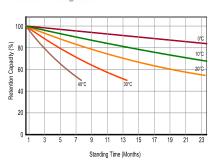
Relationship between charging voltage & temp.



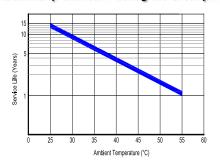
Effect of temperature on capacity



Self discharge



Relationship between Floating life & temp.



Constant current discharge ratings - Amperes per cell @ 25℃

V/cell		Minutes					Hours					
v/ceii	V/Ceii 5	10	15	20	30	40	1	3	5	8	10	20
1.85V	82.8	80.9	79.5	76.9	65.6	59.2	46.9	21.9	14.4	9.6	8.48	4.59
1.80V	121	116	103	92.3	77.7	67.4	52.5	23.7	15.7	10.3	9.25	5.00
1.75V	140	129	113	100	80.6	71.6	55.1	23.9	16.1	10.5	9.26	5.01
1.70V	159	141	121	106	84.1	74.0	57.0	24.7	16.8	10.8	9.27	5.01
1.65V	177	154	130	112	88.6	76.1	58.7	25.5	17.0	10.9	9.31	5.03
1.60V	199	168	140	119	93.8	79.8	60.8	26.4	17.6	11.1	9.41	5.09

Constant power discharge ratings - Watts per cell @ 25℃

Wasii		Minutes					Hours					
V/Cell	V/cell 5	10	15	20	30	40	1	3	5	8	10	20
1.85V	153	150	147	142	123	112	89.0	42.0	27.8	18.7	16.5	8.94
1.80V	217	208	185	168	142	125	98.6	45.1	30.1	19.9	17.9	9.70
1.75V	245	230	201	180	147	132	103	45.5	30.8	20.2	18.0	9.71
1.70V	270	241	216	190	153	135	106	46.9	32.1	20.9	18.0	9.72
1.65V	296	265	227	199	159	138	110	48.3	32.5	21.3	18.1	9.78
1.60V	324	282	241	210	168	144	112	49.7	33.3	21.4	18.3	9.90