

(Power NEWMAX Premium Battery)



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PNB SERIES

"The Ultra Power of Newmax Lead-Acid Battery"

PNB series is AGM and VRLA type batteries available in various capacities and dimensions which can be installed in any direction. The sealed structure is possible due to technology that prevents over pressuring from excess gassing. This series can be used for UPS, telecommunications, lighting systems and more.

01	Longer Life	02	Maintenance Free	03	Leak Free	04	Safety
Advanced technology is u	used to produce	NEWMAX batte	ry has a gas recombinig	Ultra-porous Absorbent G	lass Mat stores	Specially designed	anti-explosion filter
batteries suited for long s	ervice life. High	design that do	esn't need maintenance	the electrolyte between the	ne plates. Gas-	and safety valves p	orevent gas leakage
density, anti-corrosive lea	ad calcium alloy	until the end of it	s life.	tight sealed container make	es is leak free.	when overcharged.	
is used to minimize	impurities and						

Fahrenheit-Schutz[™] Heat Protection Case

proprietary high rigidity case material has heat deflection rating of 140°C.

General feature

* Plate	Paste type	Fa							
 Battery type 	Sealed and Maintenance free / Non-spillable construction design								
Case/cover mat	High-stiffness engineering PP plastic (Heat Deflection Temp. 140 $^\circ\!\!\!C$) RoHS Compliant EU Directive 2002/95/EC	l							
 Safety performance 	Safety valve & flame arrestor installation for explosion proof.								
♦ High quality, high reliability and low self discharge rate ♦ Exceptional deep discharge recovery performance									
 Flexibility design for multiple install positions (Position Free, GEL Technology) 									

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





MaxPress[™] Grid Technology

Patent pending grid compressing technology which increase 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.

Specially Formulated heat and flame resistant PP case material is used to effectively block ambient heat thus preventing heat related malfunctions such as thermal runaway. This

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POWERINOX®



Technical feature

FlexSealing [™] Anti Explosion Filter

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

Active Carbon [™]

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

Battery model	PNB 122000 (12V200AH / 10 HOUR RATE)								
Conscitut (@25°c)	C ₁₀ (1.80VPC)	C ₅ (1.70VPC)		C ₃ (1.65VPC	C ₁ (1.60VPC)				
	200Ah	200Ah 182Ah		166Ah	132Ah				
Dimensione (mm/inch)	Length	Width		Height	Total Height				
Dimensions (mm/mcn)	522(20.55) 240(9.45)		215(8.47)		221(8.70)				
Weight (kg/lbs)	58.5kg(128.97lbs)±3%								
Internal resistance (mΩ)	≤2.50mΩ (25 ℃, 77°F)								
Max. discharge current (5sec)	1600 A Max. discharge			current(continuous) 600 A					
Capacity affected by	@30°C(86°F) @		25℃(77°F)	@10℃(50°F)		@-10℃(14°F)			
Temperature	105%	103%		95%		78%			
Self discharge (@25°C,77F)	After 1 month ≤2	.%	After 3	month ≤6%	Afte	After 6 month ≤12%			
Max. short duration discharge current (0.1sec)	4,000A±10%								
Pasammandad abarging (@25%)	Cycl	ic use		Stand-by use (Floating)					
Recommended charging (@25 C)	2.40~2.50V/cell (±5.5	mV/℃/Cell)	/ 80.0A max.	2.21~2.23V/cell (±3.3mV/°C/cell)					



INDUSTRY LEADER IN VRLA BATTERIES

POWERINOX



	5	10	15	20		40	1	3	5	0	10	20
1.85V	184	182	177	171	146	128	101	47.3	31.1	20.8	18.3	9.92
1.80V	269	257	229	206	173	146	114	51.1	34.0	22.2	20.0	10.8
1.75V	312	288	251	222	179	155	119	51.7	34.9	22.7	20.0	10.8
1.70V	354	315	269	236	187	160	123	53.3	36.4	23.3	20.0	10.8
1.65V	394	342	288	250	197	164	127	55.2	36.7	23.7	20.1	10.9
1.60V	442	375	311	266	209	172	131	57.0	38.1	24.1	20.3	11.0
1.60V	442	375	311	266	209	172	131	57.0	38.1	24.1	20.3	11.0

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

V/cell	Minutes						Hours					
	5	10	15	20	30	40	1	3	5	8	10	20
1.85V	341	336	328	318	274	242	192	90.9	60.2	40.5	35.7	19.3
1.80V	484	463	412	374	317	270	213	97.6	65.1	43.0	38.8	21.0
1.75V	546	513	449	401	328	286	223	98.4	66.7	43.7	38.9	21.0
1.70V	601	537	481	423	340	293	229	101	69.4	45.1	38.9	21.0
1.65V	660	589	506	444	354	298	239	104	70.3	46.1	39.1	21.1
1.60V	722	628	536	467	374	312	241	107	72.0	46.2	39.6	21.4
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