

UPN SERIES

2V Deep Cycle Premium Gel with Longer Life

The Newmax UPN Series is an ultra efficient premium quality UPS battery series. This innovative and technology intensive product has proven to last up to 60% longer than its predecessor, the PNGB series. Constant drive for true innovation was the key to the success of our UPN series.



DenseMax™ Grid Technology

Proprietary grid casting technology that condenses the lead grain in the grids increasing the density by 50% compared to a conventional gravity casting method. Higher density grids enable prolonged battery life even in the most severe operating environments.



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.



ActiveCarbon™

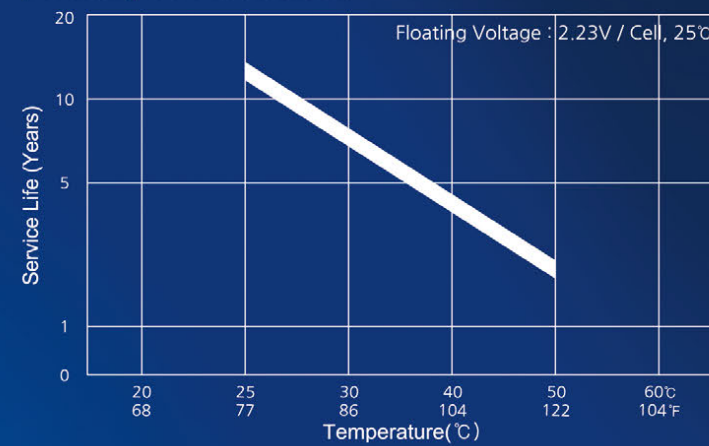
In every Newmax battery, proprietary micro carbon additive is used in the active material for both positive and negative plates to enhance charge acceptance and cycle endurance. ActiveCarbon™ works to strengthen charge pathways to improve performance consistency and enhance performance at partial state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



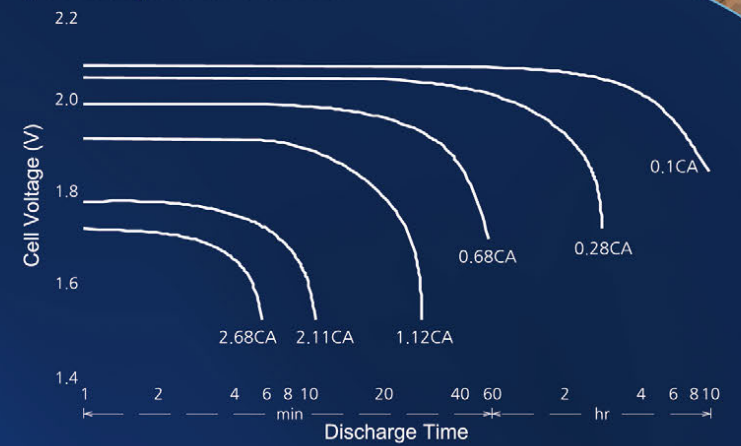
Fahrenheit-Schutz™ Heat Protection Case

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.

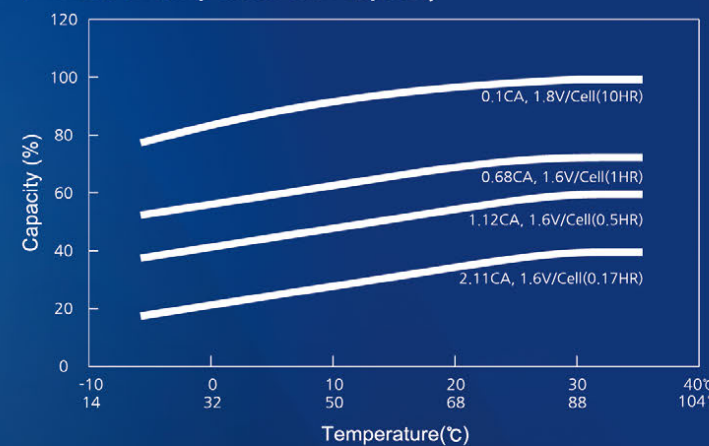
Floating life characteristics



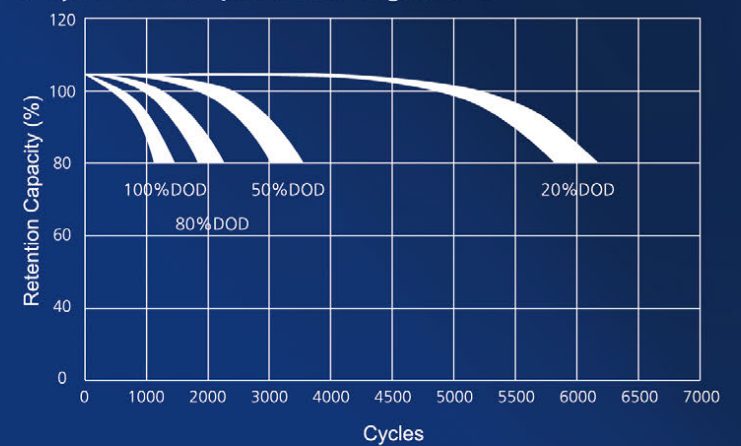
Discharge time vs current



Effect of temperature on capacity



Cycle life vs Depth of Discharge@25°C



2 Voltage UPN Series Battery Specifications

Battery Type	(V)	Nominal Capacity(AH)				Dimension								Weight		Terminal type
		10HR	5HR	3HR	1HR	Length		Width		Height		T.Height		Approx.		
		(1.80)	(1.70)	(1.67)	(1.60)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(Lb)	(kg)	
UPN 150	2	150	137	125	99	106	4.17	170	6.69	326	12.83	364	14.33	24.3	11.0	I
UPN 200	2	200	182	166	132	106	4.17	170	6.69	326	12.83	364	14.33	29.8	13.5	I
UPN 250	2	250	228	208	165	195	7.68	170	6.69	326	12.83	364	14.33	38.6	17.5	I
UPN 300	2	300	273	249	198	195	7.68	170	6.69	326	12.83	364	14.33	45.2	20.5	I
UPN 400	2	400	364	332	264	195	7.68	170	6.69	326	12.83	364	14.33	56.2	25.5	I
UPN 500	2	500	455	415	330	289	11.38	171	6.73	326	12.83	364	14.33	71.7	32.5	I
UPN 600	2	600	546	498	396	289	11.38	171	6.73	326	12.83	364	14.33	83.8	38.0	I
UPN 700	2	700	637	581	462	382	15.04	171	6.73	326	12.83	364	14.33	100.3	45.5	I
UPN 800	2	800	728	664	528	382	15.04	171	6.73	326	12.83	364	14.33	111.3	50.5	I
UPN 900	2	900	819	747	594	471	18.54	171	6.73	326	12.83	364	14.33	130.1	59.0	I
UPN 1000	2	1000	910	830	660	471	18.54	171	6.73	326	12.83	364	14.33	143.3	65.0	I
UPN 1200	2	1200	1092	996	792	471	18.54	171	6.73	326	12.83	364	14.33	154.3	70.0	I
UPN 1400	2	1400	1274	1162	924	472	18.58	333	13.11	340	13.39	372	14.65	213.8	97.0	J
UPN 1600	2	1600	1456	1328	1056	472	18.58	333	13.11	340	13.39	372	14.65	235.9	107	J
UPN 1800	2	1800	1638	1494	1188	472	18.58	333	13.11	340	13.39	372	14.65	260.1	118	J
UPN 2000	2	2000	1820	1660	1320	472	18.58	333	13.11	340	13.39	372	14.65	277.8	126	J