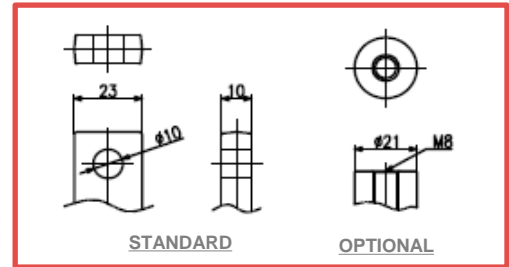
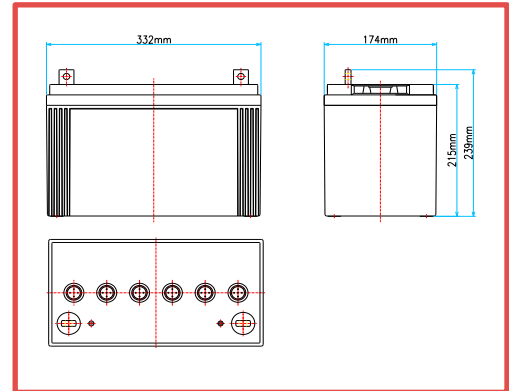
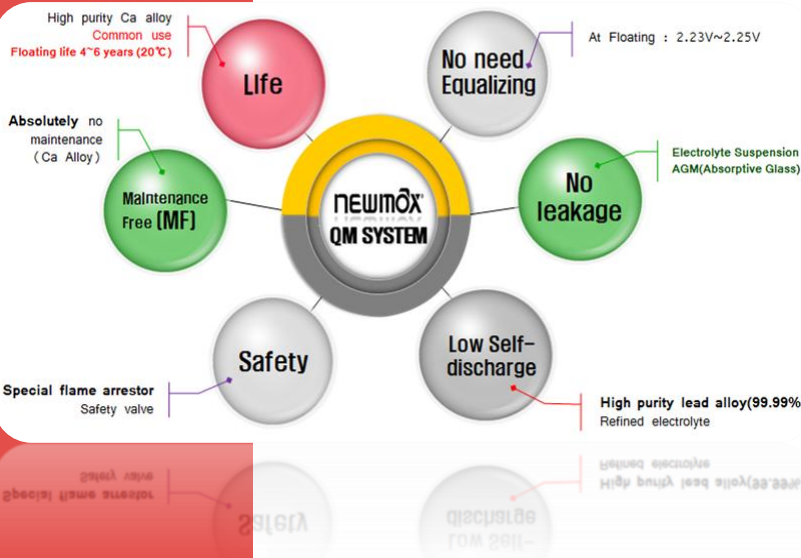


# PNB 121000H (12V100AH)



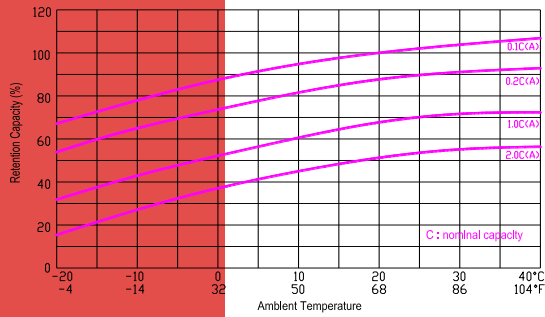
\*\*\* The color and the printed specifications of the products are subject to change without prior notice.

Plate	Paste type
Container/cover	ABS(Optional F.Retardant)
Sealant	Epoxy Resin
Separator	Absorptive Glass Mat(AGM)
Electrolyte	Electrolyte Suspension

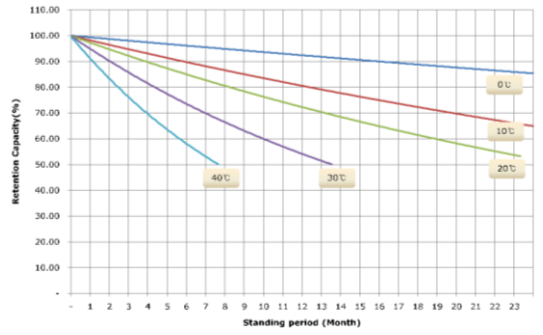


Battery model	PNB 121000H (12V100AH / 20 HOUR RATE)			
Rated Capacity (@25°C)	20HR (1.80VPC)	10HR (1.75VPC)	5HR (1.70VPC)	1HR (1.60VPC)
	100Ah	92Ah	83Ah	63Ah
Dimensions (mm/inch)	Length	Width	Height	Total Height
	332(13.07)	174(6.85)	215(8.46)	239(9.46)
Approx. weight	29.0kg (63.9lbs)			
Internal resistance	Approx. 3.95 mΩ (@25°C, 77°F)			
Max. discharge current (5sec)	800 A	Max. discharge current (continuous)		200A
Capacity affected by Temperature	@30°C (86°F)	@25°C (77°F)	@10°C (50°F)	@-10°C (14°F)
	105%	103%	95%	78%
Self discharge (@25°C, 77°F)	After 1 month 3%		After 3 month 8%	After 6 month 15%
Max. short duration discharge current (0.1sec)	2000 A			
Recommended Charging (@25°C)	Cycle use		Floating use	
	2.40~2.50V/cell (±5.5mV/°C/Cell) / 40.0A max.		2.23~2.25V/cell (±3.3mV/°C/cell)	

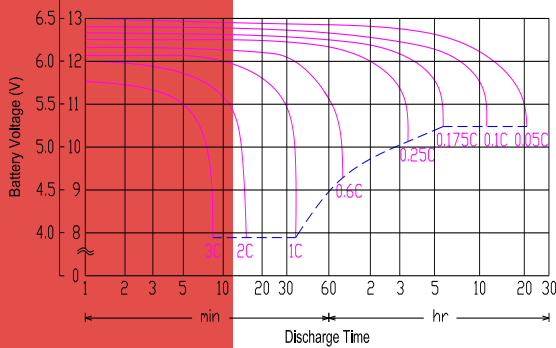
### Effect of temperature on capacity



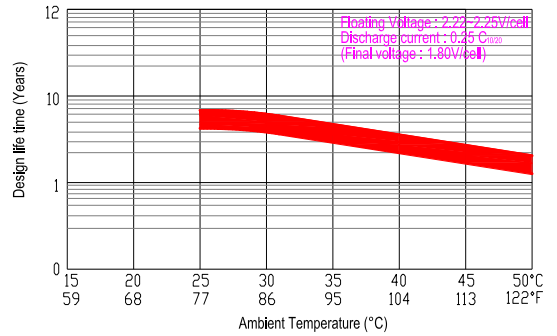
### Self discharge



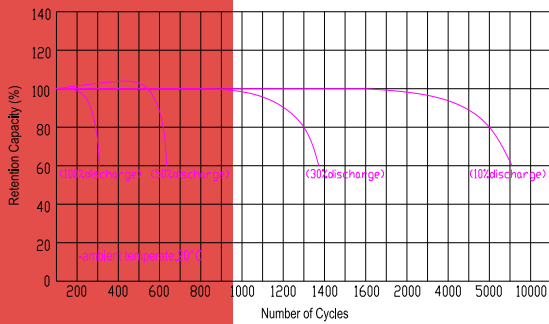
### Discharge time vs current



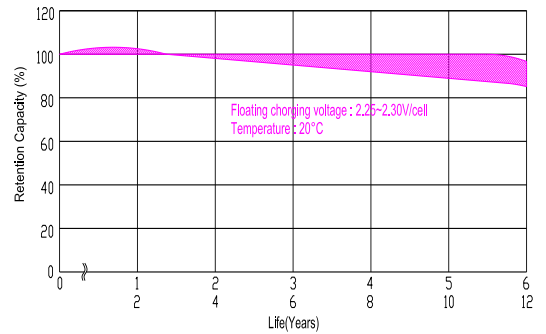
### Floating life characteristics



### Cycle life vs DOD %



### Floating life for capacity characteristics



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

V/cell	Minutes						Hours					
	5	10	15	20	30	40	1	3	5	8	10	20
1.90V	188	156	146	118	97.9	83.0	59.1	23.4	14.7	9.99	8.49	4.64
1.85V	224	173	168	136	109	92.5	60.5	24.4	15.2	10.5	8.86	4.82
1.80V	262	206	180	144	112	95.4	61.0	25.3	15.6	10.8	9.13	5.00
1.75V	282	218	188	148	114	98.3	61.5	26.2	16.1	11.1	9.31	5.09
1.70V	305	228	194	151	116	99.0	61.7	26.7	16.9	11.5	9.68	5.27
1.65V	314	233	197	154	117	99.3	62.0	27.6	17.2	11.9	10.0	5.45
1.60V	323	238	199	155	117	99.5	62.4	28.1	17.7	12.2	10.3	5.64

### 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
1.90V	365	303	283	230	193	163	116	46.2	28.9	20.0	17.0	9.27
1.85V	435	335	325	263	215	182	119	48.0	30.0	20.9	17.7	9.64
1.80V	507	400	350	279	220	188	120	49.8	30.7	21.6	18.3	10.0
1.75V	547	422	364	288	225	194	121	51.7	31.7	22.2	18.6	10.2
1.70V	591	443	377	293	228	195	122	52.6	33.3	22.9	19.4	10.5
1.65V	609	452	383	298	230	196	122	54.5	33.9	23.8	20.1	10.9
1.60V	627	462	386	301	231	196	123	55.4	35.0	24.4	20.6	11.3

