



PVC GEL BATTERY NG Series



NG2-240 (2V 240AH)

New Power PVC GEL Series is manufactured with PVC/SiO₂ separator and fumed Silica. Gel battery is featured with low self-discharge, strong ability to recover from deep discharging, it has long service life and 50% more deep cycle life and excellent performance at cold ambient temperatures than conventional VRLA.

Battery Construction

COMPONENT	POSITIVE PLATE	NEGATIVE PLATE	CONTAINER	COVER	SAFETY VALVE	TERMINAL	SEPARATOR	ELECTROLYTE
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	PVC/SiO ₂	Gelled Acid

Performance Characteristics

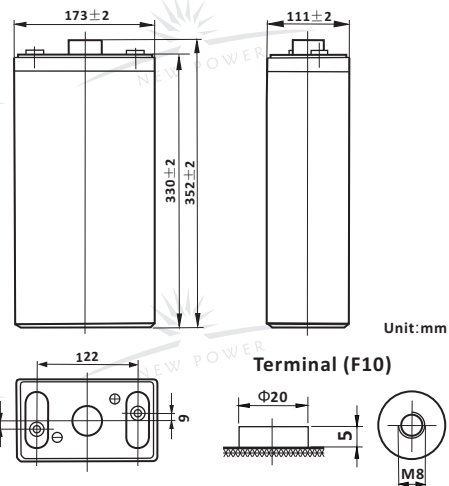
- **Nominal Voltage** 2V
- **Number of Cell** 1
- **Nominal Capacity (77°F/25°C)**
 - 100 Hour rate (2.4A, 1.85V) 240Ah
 - 10 Hour rate (20A, 1.80V) 200Ah
 - 5 Hour rate (34A, 1.75V) 170Ah
 - 1 Hour rate (115A, 1.60V) 115Ah
- **Internal Resistance**
 - Fully charged battery (77°F/25°C) 0.72mΩ
- **Capacity affected by temperature (20 hour rate)**
 - 104°F (40°C) 102% 32°F (10°C) 85%
 - 77°F (25°C) 100% 5°F (-15°C) 65%
- **Self-Discharge 68°F (20°C)**
 - Capacity after 3 month storage 90%
 - Capacity after 6 month storage 80%
 - Capacity after 12 month storage 60%
- **Max. discharge current 77°F/25°C** 1000A(5S)
- **Charge Methods: constant voltage charge 77°F/25°C**
 - Cycle use 2.35 ~ 2.45V
 - Max. Current 40A
 - Standby use 2.25 ~ 2.30V

General Features

- **Micro millimeter SiO₂ and H₂SO₄ technology for efficient gas recombination of up to 99%, free from electrolyte maintenance or water add.**
- **Not restricted for air transport-complies with IATA/ICAO Special Provision A67.**
- **A recognized component of CE and UL**
- **Computer designed lead, calcium tin alloy grid for high power density.**
- **Long service life, float or cyclic applications.**
- **Maintenance-free operation.**
- **Low self discharge**
- **Design life 15 years**

Dimensions and Weight

Type	Length	Width	Height	Total Height	Approx. Weight
SI Units	173mm	111mm	330mm	364mm	14.5Kg
English Units	6.81inch	4.37inch	13.0inch	14.3inch	31.94lbs



Constant Current Discharge (Amperes at 77°F/25°C)

V/cell	10min	15min	30min	1h	3h	5h	10h	100h
1.60	358	275	193	115	53.4	36.6	21.02	2.62
1.65	339	261	184	111	51.8	36.0	20.63	2.57
1.70	320	247	176	107	50.0	35.2	20.41	2.54
1.75	300	233	166	102	47.4	34.0	20.20	2.52
1.80	280	220	157	97.2	45.6	32.4	20.00	2.50
1.85	260	206	148	93.0	43.2	30.2	19.38	2.40

Constant Power Discharge (Watts at 77°F/25°C)

V/cell	10min	15min	30min	1h	3h	5h	10h	100h
1.60	607	467	332	209	99.4	69.0	40.6	5.17
1.65	586	453	322	203	97.4	65.6	40.4	5.12
1.70	564	435	314	196	96.0	64.4	40.0	5.08
1.75	545	423	302	190	92.6	62.0	39.6	5.04
1.80	523	407	286	184	88.6	60.4	39.4	5.02
1.85	491	390	280	178	84.6	58.4	39.0	4.87

(Note: The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.)



