



PVC GEL BATTERY

NG Series



NG2-1200 (2V 1200AH)

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

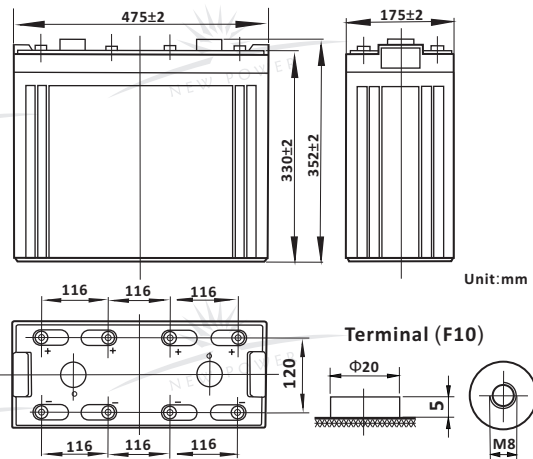
- **Nominal Voltage** 2V
- **Number of Cell** 1
- **Nominal Capacity (77°F / 25°C)**
 - 100 Hour rate (12A, 1.85V) 1200Ah
 - 10 Hour rate (100A, 1.80V) 1000Ah
 - 5 Hour rate (170A, 1.75V) 850Ah
 - 1 Hour rate (576A, 1.60V) 576Ah
- **Internal Resistance**
 - Fully charged battery (77°F / 25°C) 0.52mΩ
- **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** 4100A(5S)
- **Charge Methods: constant voltage charge 77°F / 25°C**
 - Cycle use 2.38 ~ 2.42V
 - Max. Current 200A
 - Standby use 2.23 ~ 2.28V

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	475mm	175mm	330mm	367mm	65Kg
English Units	18.7inch	6.89inch	13.0inch	14.5inch	143.3lbs



Total height with removable cover: 367

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

V/cell	10min	15min	30min	1h	3h	5h	10h	100h
1.60	1790	1373	965	576	267	183	105	13.12
1.65	1699	1304	921	555	260	180	103	12.86
1.70	1600	1236	878	533	250	176	102	12.72
1.75	1504	1166	831	509	237	170	101	12.60
1.80	1403	1098	783	486	228	162	100	12.48
1.85	1304	1031	738	465	216	151	96.9	12.00

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

V/cell	10min	15min	30min	1h	3h	5h	10h	100h
1.60	3032	2332	1659	1042	497	345	203	25.85
1.65	2930	2262	1610	1014	487	328	202	25.58
1.70	2820	2173	1570	980	480	322	200	25.42
1.75	2723	2112	1507	947	463	310	198	25.20
1.80	2614	2032	1430	920	443	302	197	25.08
1.85	2454	1949	1398	887	423	292	195	24.36

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



