

## NIFE CYNF Series

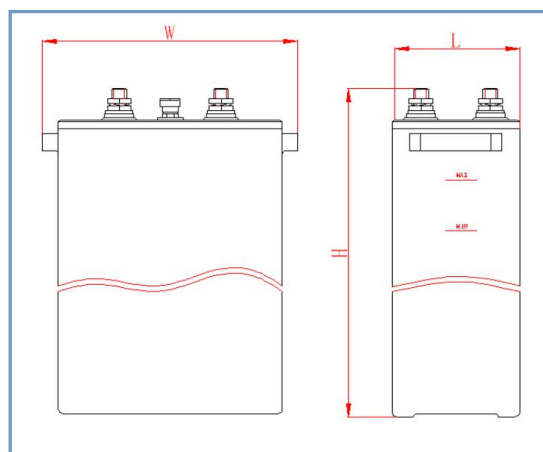
CIYI NIFE CYNF series low rate NIFE batteries are made of pocket plate with the characteristics of thin plate, high porosity and low internal resistance. nowadays, more and more countries and governments have paid special attentions on environmental protection and actively promoted the application of Green Energy.

### Applications

- PV Systems
- Telecommunication
- Lighting
- Wind Power Generation
- UPS Back up Power Systems
- Railway Rolling Stocks

### Advantages

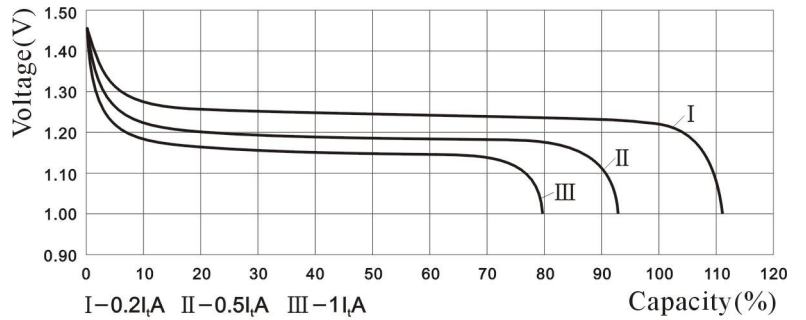
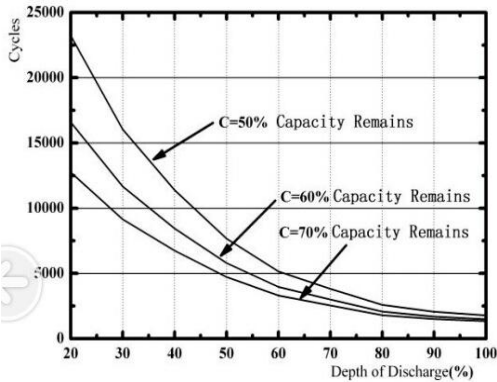
- Military Quality with Designed life up to 30-40years.
- Varta Technology and Equipment.
- Wide Working Temperature from -20°C to +60°C.
- Pocket Technology on the positive plate make the battery high strength, high expansion resistance.
- Slurry Technology on the negative plate make the battery light weight and better low temperature performance.
- 10CA high peak discharge current.



## Technical Data

Battery Model	CYNF1200			
Voltage	1.2V			
Capacity	1200AH			
Designed Life	30-40 Years (Floating)			
Housing Material	PP/ABS			
Capacity(25°C)	5HR (240A 1.0V)		1200A	
Dimensions	Length	Width	Height	
	184mm	398mm	560mm	
Structure	Terminal Size	Terminal Quantity	Connection Torque	
	M20×1	⊕3/⊖3	50±3N.m	
Approximate Weight	Dry Weight		49Kg	
	Wet Weight		70Kg	
Type of Electrolyte	E3(1.2g/cm <sup>3</sup> KOH + 20g/L LiOH·H <sub>2</sub> O)			
Volume of Electrolyte	17L			
Internal Resistance	Full charged at 25°C: 0.21mΩ to 0.25mΩ			
Capacity Affected by Temp.(5HR)	40°C	20°C	0°C	20°C
	95%	100%	85%	50%
Dual-voltage charging voltage and current setting (25°C):	Equalizing		Floating	
	1.60V~1.75V /Cell with Initial charging current less than 240A		1.48V~1.50V/Cell with Initial charging current less than 240A	
Max Discharging Current	12000A			
Operating Temperature	charging	-20°C to 60°C		discharge
				-40°C to 60°C

## Service Life Drawing & Discharging Curves



## Discharge Performance

Performance after prolonged float charge of fully charged cells available current at 20±5°C

End off voltage V/cell	Hours							Minutes						Seconds		
	10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
1.00	126	155	240	394	532	630	800	988	1091	1157	1280	1440	1830	2019	2256	2323
1.05	124	151	238	346	451	554	645	799	878	967	1049	1197	1518	1634	1829	1909
1.10	118	140	205	304	403	468	538	642	722	766	790	966	1235	1310	1446	1464
1.14	115	134	181	263	330	377	426	514	555	587	657	749	975	1053	1139	1170

Performance after charging the battery for 8 hrs with 0.2ItA at 20±5°C

End off voltage V/cell	Hours							Minutes						Seconds		
	10	8	5	3	2	1.5	1	30	20	15	10	5	1	30	5	1
1.00	126	155	240	394	560	700	920	1190	1330	1428	1600	1800	2316	2556	2856	2940
1.05	124	151	238	380	524	660	796	1024	1140	1272	1380	1596	2052	2208	2472	2580
1.10	122	147	228	366	504	600	708	879	989	1064	1112	1380	1764	1872	2065	2091
1.14	121	144	226	346	446	516	600	756	816	876	996	1152	1500	1620	1752	1800