

NIFE CYNF Series

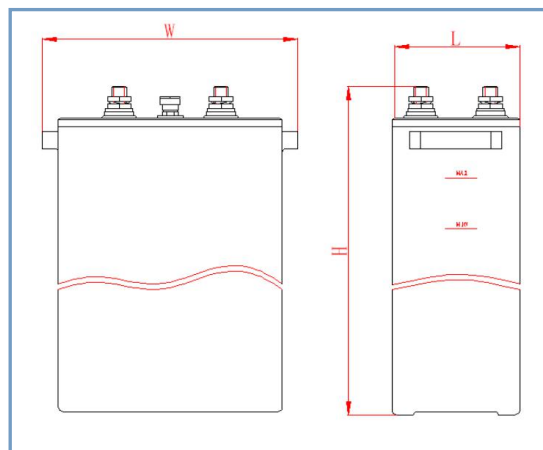
CYI NIFE CYNF series low rate NIFE batteries are made of pocket plate with the characteristics of thin plate, high porosity and low internal resistance. nowadays, more and more countries and governments have paid special attentions on environmental protection and actively promoted the application of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

Applications

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

Advantages

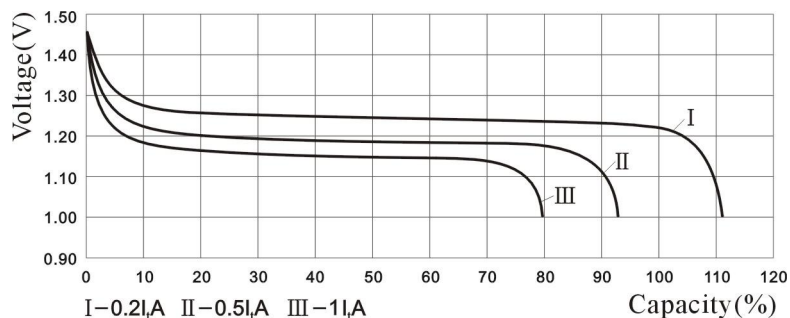
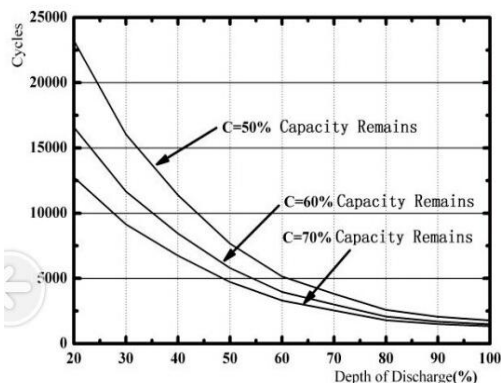
- Military Quality with Designed life up to 30-40years.
- Varta Technology and Equipment.
- Wide Working Temperature from -20°C to +60°C.
- Pocket Technology on the positive plate make the battery high strength, high expansion resistance.
- Slurry Technology on the negative plate make the battery light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



Technical Data

Battery Model	CYNF700			
Voltage	1.2V			
Capacity	700AH			
Designed Life	30-40 Years (Floating)			
Housing Material	ABS			
Capacity(25°C)	5HR (140A 1.0V)		700A	
Dimensions	Length	Width	Height	
	176mm	291mm	510mm	
Structure	Terminal Size	Terminal Quantity	Connection Torque	
	M20	⊕3/⊖3	50±3N.m	
Approximate Weight	Dry Weight		41.0Kg	
	Wet Weight		52.0Kg	
Type of Electrolyte	E3(1.2g/cm ³ KOH + 20g/L LiOH·H ₂ O)			
Volume of Electrolyte	6.0L			
Internal Resistance	Full charged at 25°C: 0.36mΩ to 0.43mΩ			
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 140A		1.48V~1.50V/Cell with Initial charging current less than 140A	
Max Discharging Current	7000A			
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	73.5	90.1	140	227	308	367	456	563	635	679	742	850	1086	1161	1316	1355
1.05	72.1	87.3	139	200	269	325	384	470	514	562	608	694	884	951	1067	1111
1.10	69.3	81.8	120	177	235	273	314	374	422	446	481	561	715	764	906	910
1.14	67.2	78.1	106	157	196	221	249	294	333	342	376	436	567	610	663	683

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	73.5	90.1	140	227	324	408	524	678	774	838	928	1063	1375	1470	1666	1715
1.05	72.1	87.3	139	220	313	387	474	603	668	740	800	925	1195	1285	1442	1502
1.10	71.4	86.1	133	213	294	350	413	513	578	620	678	802	1021	1092	1294	1300
1.14	70.7	84.0	132	207	265	303	350	432	489	510	570	671	873	939	1020	1050

