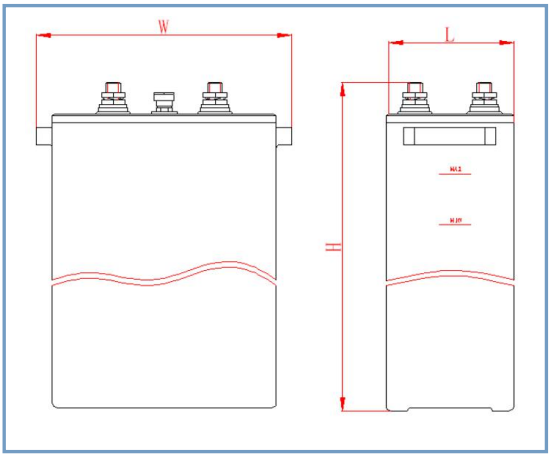
采異集团
CiyiGroupLimited

NICKEL IRON BATTERY CYNF400 1.2V400AH



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

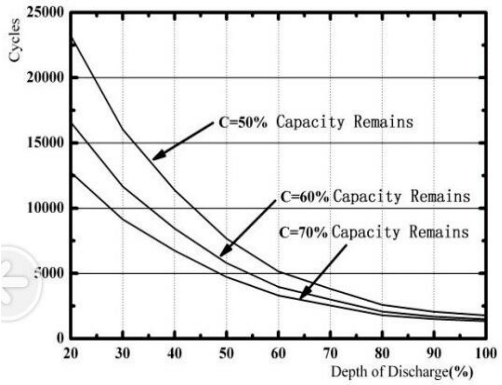
Advantages

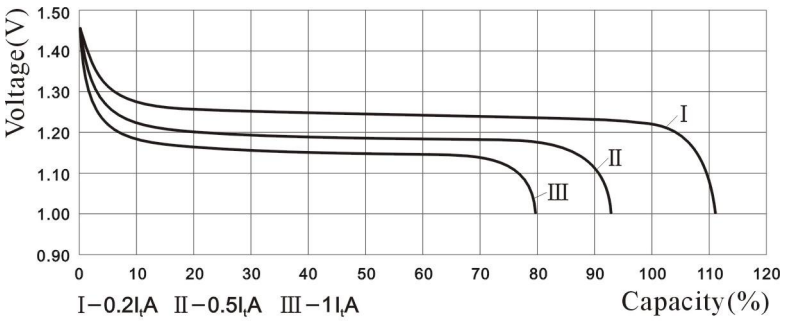
- Military Quality with Designed life up to 30-40years.
- Varta Technology and Equipment.
- Wide Working Temperature from -20℃ to +60℃.
- Pocket Technology on the positive plate make the battery high strength,high expansion resistance.
- Slurry Technology on the negative plate make the battery light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

Technical Data

Battery Model	CYNF400			
Voltage	1.2V			
Capacity	400AH			
Designed Life	30-40 Years (Floating)			
Housing Material	PP/ABS			
Capacity(25℃)	5HR (80A 1.0V)		400A	
Dimensions	Length	Width	Height	
	279mm	138mm	450mm	
Structure	Terminal Size	Terminal Quantity	Connection Torque	
	M16	⊕2/⊖2	30±3N.m	
Approximate Weight	Dry Weight		17.0Kg	
	Wet Weight		23.0Kg	
Type of Electrolyte	E3($1.2g/cm^3$ KOH ＋20g/L $LiOH \cdot H_2O$)			
Volume of Electrolyte	5.0L			
Internal Resistance	Full charged at 25℃: 0.50mΩ to 0.63mΩ			
Capacity Affected by Temp.(5HR)	40℃	20℃	0℃	20℃
	95%	100%	85%	50%
Dual-voltage charging voltage and current setting（25℃）:	Equalizing		Floating	
	1.60V～1.75V /Cell with Initial charging current less than 80A		1.48V～1.50V/Cell with Initial charging current less than 80A	
Max Discharging Current	4000A			
Operating Temperature	charging	-20℃ to 60℃	discharge	-40℃ to 60℃

Service Life Drawing & Discharging Curves





Discharge Performance

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

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	42.0	51.5	80.0	130	176	208	258	319	361	386	424	483	619	664	751	770
1.05	41.2	49.9	79.2	115	153	185	215	267	293	322	350	399	506	545	610	636
1.10	39.6	46.7	68.4	101	134	156	179	214	241	256	275	322	412	437	477	486
1.14	38.4	44.6	60.2	89.7	111	127	143	171	188	197	218	248	325	351	378	389

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

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	42.0	51.5	80.0	130	185	231	296	384	440	476	530	604	784	840	950	975
1.05	41.2	49.9	79.2	126	178	220	266	342	380	424	460	532	684	736	824	860
1.10	40.8	49.2	76.0	122	168	200	236	293	330	355	387	460	588	624	682	694
1.14	40.4	48.0	75.2	118	150	174	202	252	276	294	330	382	500	540	581	599

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