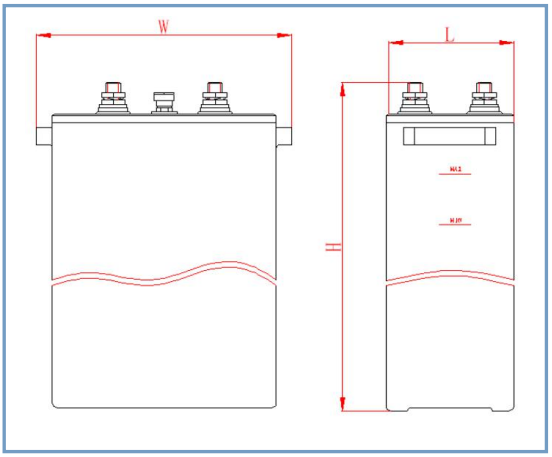
采異集团
CiyiGroupLimited

NICKEL IRON BATTERY CYNF200 1.2V200AH

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	CYNF200			
Voltage	1.2V			
Capacity	200AH			
Designed Life	30-40 Years (Floating)			
Housing Material	PP/ABS			
Capacity(25℃)	5HR (40A 1.0V)		200A	
Dimensions	Length	Width	Height	
	167mm	162mm	343mm	
Structure	Terminal Size	Terminal Quantity	Connection Torque	
	M20	⊕1/⊖1	50±3N.m	
Approximate Weight	Dry Weight		10.0Kg	
	Wet Weight		14.0Kg	
Type of Electrolyte	E3($1.2g/cm^3$ KOH +20g/L $LiOH \cdot H_2O$)			
Volume of Electrolyte	3.3L			
Internal Resistance	Full charged at 25℃: 1.0mΩ to 1.25mΩ			
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 40A		1.48V～1.50V/Cell with Initial charging current less than 40A	
Max Discharging Current	2000A			
Operating Temperature	charging	-20℃ to 60℃	discharge	-40℃ to 60℃

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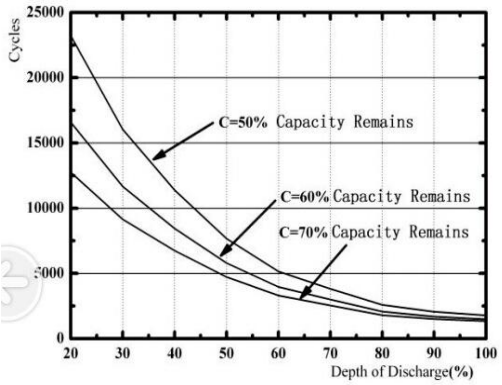
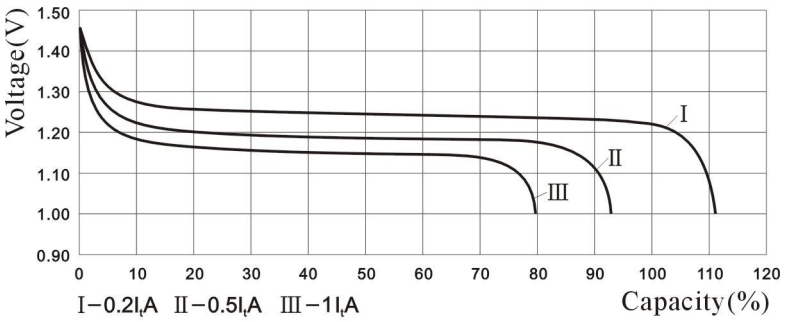
Service Life Drawing & Discharging Curves





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	21.0	25.8	40.0	65.1	88.5	105	129	159	180	193	212	242	310	332	375	387
1.05	20.6	25.0	39.6	57.3	76.5	92.4	108	134	146	161	175	200	253	272	305	318
1.10	19.8	23.4	34.2	51.0	67.4	78.0	89.7	107	120	127	137	161	206	218	239	243
1.14	19.2	22.3	30.1	44.8	55.5	63.5	71.0	85.0	93.8	98.5	109	124	163	176	189	195

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	21.0	25.8	40.0	65.1	93.2	117	148	192	220	238	265	302	392	420	475	490
1.05	20.6	25.0	39.6	63.0	89.0	110	133	172	190	212	230	266	342	368	412	430
1.10	20.4	24.6	38	61.4	84.2	100	118	147	165	177	193	230	294	312	342	347
1.14	20.2	24	37.6	59	75	87	100	125	138	147	165	191	250	270	291	300

ISO CE

www.ciyibattery.com