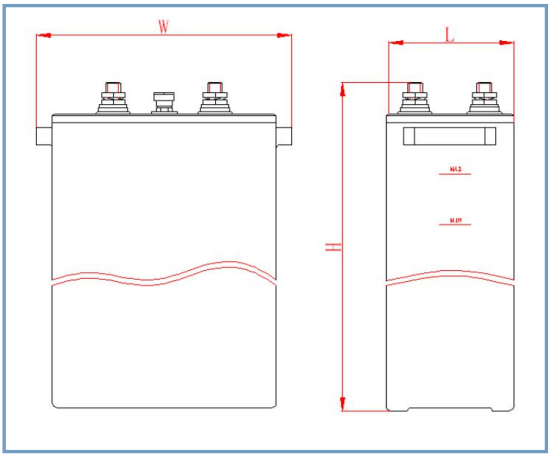
采異集团
CiyiGroupLimited

NICKEL IRON BATTERY CYNF900 1.2V900AH

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	CYNF900			
Voltage	1.2V			
Capacity	900AH			
Designed Life	30-40 Years (Floating)			
Housing Material	ABS			
Capacity(25℃)	5HR (180A 1.0V)			900A
Dimensions	Length	Width		Height
	398mm	186mm		570mm
Structure	Terminal Size	Terminal Quantity		Connection Torque
	M20	⊕3/⊖3		50±3N.m
Approximate Weight	Dry Weight			38.0Kg
	Wet Weight			60.0Kg
Type of Electrolyte	E3($1.2g/cm^3$ KOH +20g/L $LiOH \cdot H_2O$)			
Volume of Electrolyte	19.0L			
Internal Resistance	Full charged at 25℃: 0.27mΩ～0.32mΩ			
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 180A		1.48V～1.50V/Cell with Initial charging current less than 180A	
Max Discharging Current	9000A			
Operating Temperature	charging	-20℃ to 60℃	discharge	-40℃ to 60℃

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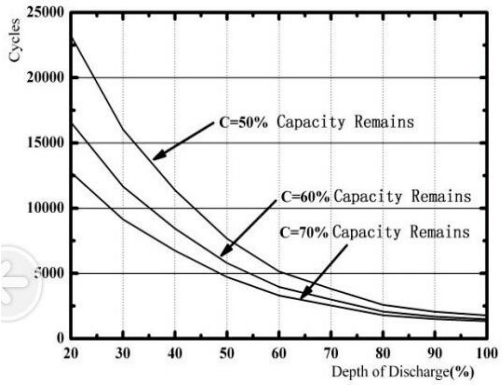
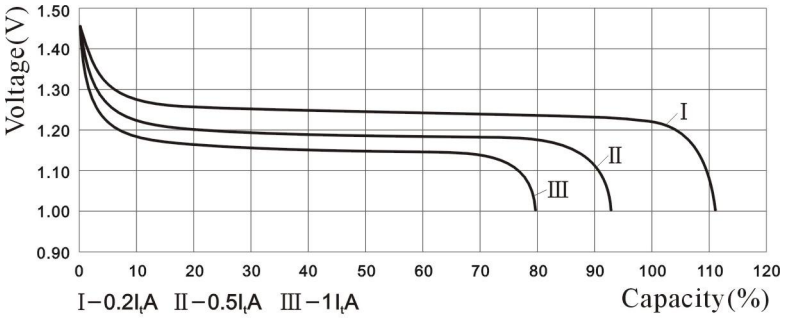
Service Life Drawing & Discharging Curves





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	90.6	111	173	280	375	415	538	670	760	776	859	998	1300	1402	1610	1689
1.05	89.9	109	171	253	332	400	470	560	665	673	750	868	1098	1230	1380	1406
1.10	85.2	103	150	221	300	340	385	460	515	540	576	682	897	946	1040	1042
1.14	81.1	101	126	190	246	269	317	352	398	412	460	530	700	740	802	810

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	92	115	183	293	392	490	629	814	928	996	1112	1269	1633	1767	2013	2073
1.05	91.2	114	181	268	374	465	562	723	804	897	973	1125	1446	1557	1750	1820
1.10	86.3	109	161	259	356	423	499	620	698	752	833	973	1244	1320	1450	1468
1.14	85.4	102	159	248	315	366	423	531	580	620	695	807	1055	1139	1235	1269

ISO CE

www.ciyibattery.com