

## CNFJ series sealed lead acid battery

The CNFJ series is suitable for medium and low depth of discharge applications. The product uses a nanogel electrolyte with a dedicated deep cycle formulation. CNFJ series has high charging efficiency at extremely low charging current, and has excellent resistance to overcharge and overdischarge. This range of products is suitable for photovoltaics, wind power systems and similar cyclic applications.

**12 V** voltage    **1200Ah** capacity    circular technology    **12 years** design life



### TECHNICAL SPECIFICATIONS

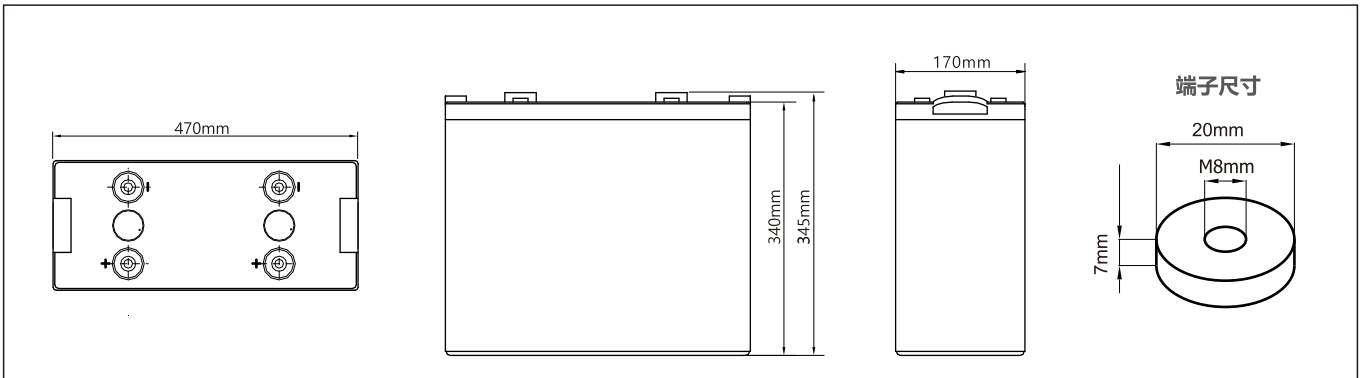
Nominal Voltage (V)	2 ( 1 cells per unit)
Designed Floating Life (25°C)	12 Years
Nominal Capacity (25°C)	1200Ah@C <sub>10</sub> Capacitance, 120A discharging to be 10.8V
Dimension (mm)	L470mmxW170mmxH345mm
Approx. Weight	62.5Kg
Terminal Type	Female Copper Insert M8 (torque:8-10N.m)
Internal Resistance	Approx. 0.25mΩ (fully charged @ 25°C)
Max. Charge Current	300A
Max. Discharge Current (5S)	4500A
Self Discharge	Approx. 4% per month @ 25°C
Ambient Temperature	Discharge: -25~65°C Charge: -25~60°C Storage: -25~45°C
Float Charge Voltage	2.40 ~ 2.45V @ 25°C
Equalize and cycle Use Charge Voltage	2.25 ~ 2.30V @ 25°C
Container Material	ABS (UL94-V0 optional)



### Complied standards

- IEC61427
- GB/T 22473
- UL1989

### BATTERY DIMENSIONS



### BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (25°C)									
F.V/Time	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.70V	831	592	374	281	228	200	148	125	75.3
1.75V	782	570	362	270	222	195	146	123	73.9
1.80V	734	534	346	259	214	191	143	120	72.4
1.85V	683	491	315	248	205	183	139	117	70.9

### Long time discharge capacity for Solar & Wind applications

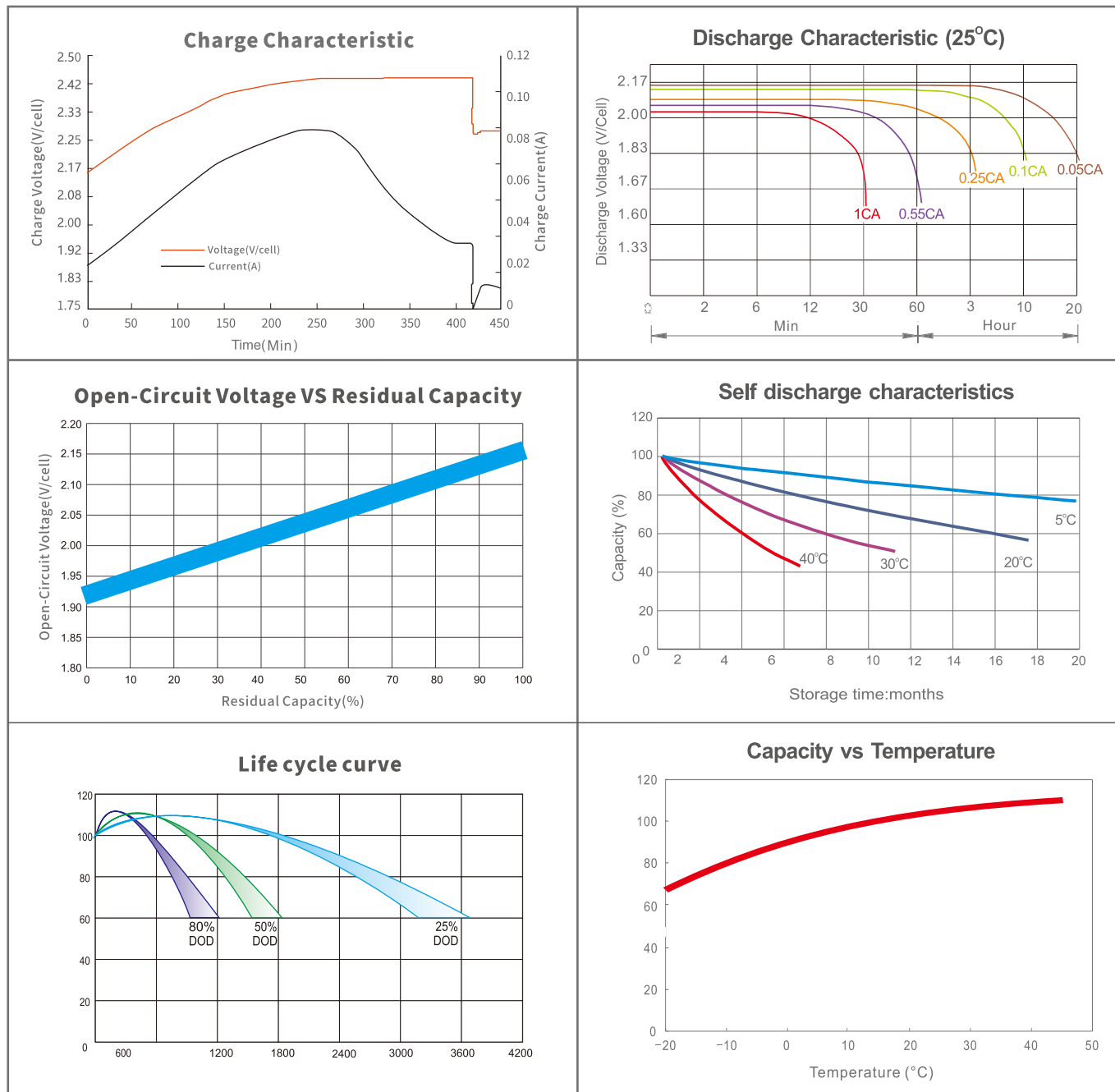
Capacity	C <sub>24</sub> (Ah)	C <sub>48</sub> (Ah)	C <sub>72</sub> (Ah)	C <sub>100</sub> (Ah)	C <sub>120</sub> (Ah)
CNFJ-1200	1288	1347	1382	1430	1481
Final Voltage	1.85V				

### Solar & Wind applications parameters settings

Over voltage disconnect:	2.45±0.01V/cell @ 25°C
Regulation/equalize voltage:	2.40±0.01V/cell @ 25°C
Array reconnection voltage:	2.25±0.005V/cell @ 25°C
Float voltage setting:	2.27±0.005V/cell @ 25°C
Low voltage alarm voltage:	1.95±0.005V/cell @ 25°C
Low voltage disconnect:	1.90±0.005V/cell @ 25°C
Load reconnect voltage:	2.09±0.01V/cell @ 25°C
Temp. compensate coefficient:	-3~-5mV/cell/°C

Constant Power Discharge Characteristics: W/cell (25°C)									
F.V/Time	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.70V	1513	1281	1078	517	429	370	275	232	137
1.75V	1448	1242	1042	508	421	364	273	230	135
1.80V	1376	1186	1000	497	411	360	270	227	133
1.85V	1295	1105	931	481	405	355	266	224	130

## CHARACTERISTICS



### FINAL VOLTAGE SETTINGS RECOMMENDED ACCORDING TO THE DISCHARGE CURRENT

Discharge Current I (A)	$I < 0.08C$	$0.08C \leq I < 0.2C$	$0.2C \leq I < 0.6C$	$0.6C \leq I < 1.0C$	$I \geq 1.0C$
Final of Voltage	$\geq 1.85V_{pc}$	$\geq 1.80V_{pc}$	$\geq 1.75V_{pc}$	$\geq 1.70V_{pc}$	$\geq 1.60V_{pc}$

Company: Zhejiang Chisen Battery Co.,Ltd  
 Address: Room 3305, Building 2, Wealth Financial Center, Shangcheng District, Hangzhou, Zhejiang  
 Website: <https://www.chisen.cn>  
 Email: [sales@chisen.cn](mailto:sales@chisen.cn)  
       [chisenbattery@gmail.com](mailto:chisenbattery@gmail.com)  
 Facebook: <https://www.facebook.com/chisenbattery>  
 LinkedIn: <https://linkedin.com/company/chisen>  
 VK: <https://vk.com/chisenbattery>



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