

## CNFJ series sealed lead acid battery

The CNFJ series is suitable for medium and low depth loop scene 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    **38Ah** capacity    circular technology    **6 years** design life



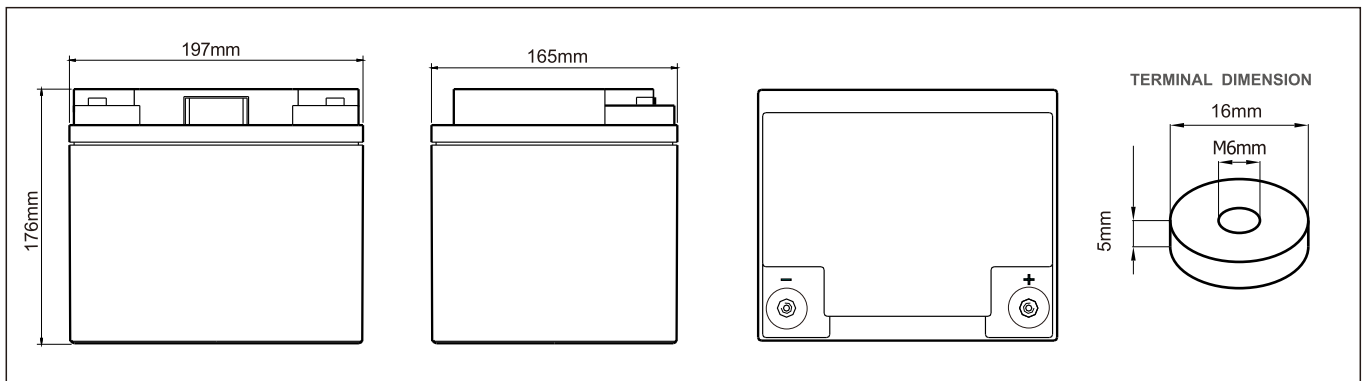
### Complied standards

- IEC61427
- GB/T 22473
- UL1989

## TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (25°C)	6 Years
Nominal Capacity (25°C)	38Ah@C <sub>10</sub> Capacitance, 3.8A discharging to be 10.8V
Dimension (mm)	L197mm x W165mm x H176mm
Approx. Weight	12.5 kg
Terminal Type	Female Copper Insert M6 (torque:6~8N.m)
Internal Resistance	Approx. 6mΩ (fully charged @ 25°C)
Max. Charge Current	16A
Max. Discharge Current (5S)	550 A
Self Discharge	Approx. 4% per month @ 20°C
Ambient Temperature	Discharge: -25~65°C Charge: -25~60°C Storage: -25~45°C
Float Charge Voltage	14.4 ~ 14.7V @25°C
Equalize and cycle Use Charge Voltage	13.5 ~ 13.8V @25°C
Container Material	ABS (UL94-V0 optional)

## BATTERY DIMENSIONS



## BATTERY DISCHARGE TABLE

F.V/Time	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.70V	39.3	24.4	14.4	10.5	8.39	7.00	4.76	3.93	2.07
1.75V	38.0	23.9	14.4	10.4	8.29	6.91	4.69	3.88	2.03
1.80V	36.3	23.2	13.9	10.2	8.09	6.75	4.59	3.80	2.00
1.85V	34.3	22.1	13.4	9.79	7.87	6.58	4.48	3.71	1.95

F.V/Time	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.70V	73.7	46.2	27.6	20.1	16.2	13.5	9.27	7.69	4.09
1.75V	71.7	45.5	27.3	20.0	16.1	13.5	9.22	7.64	4.03
1.80V	69.3	44.5	27.0	19.8	15.9	13.2	9.07	7.55	3.98
1.85V	66.0	42.9	26.1	19.3	15.5	13.0	8.93	7.40	3.91

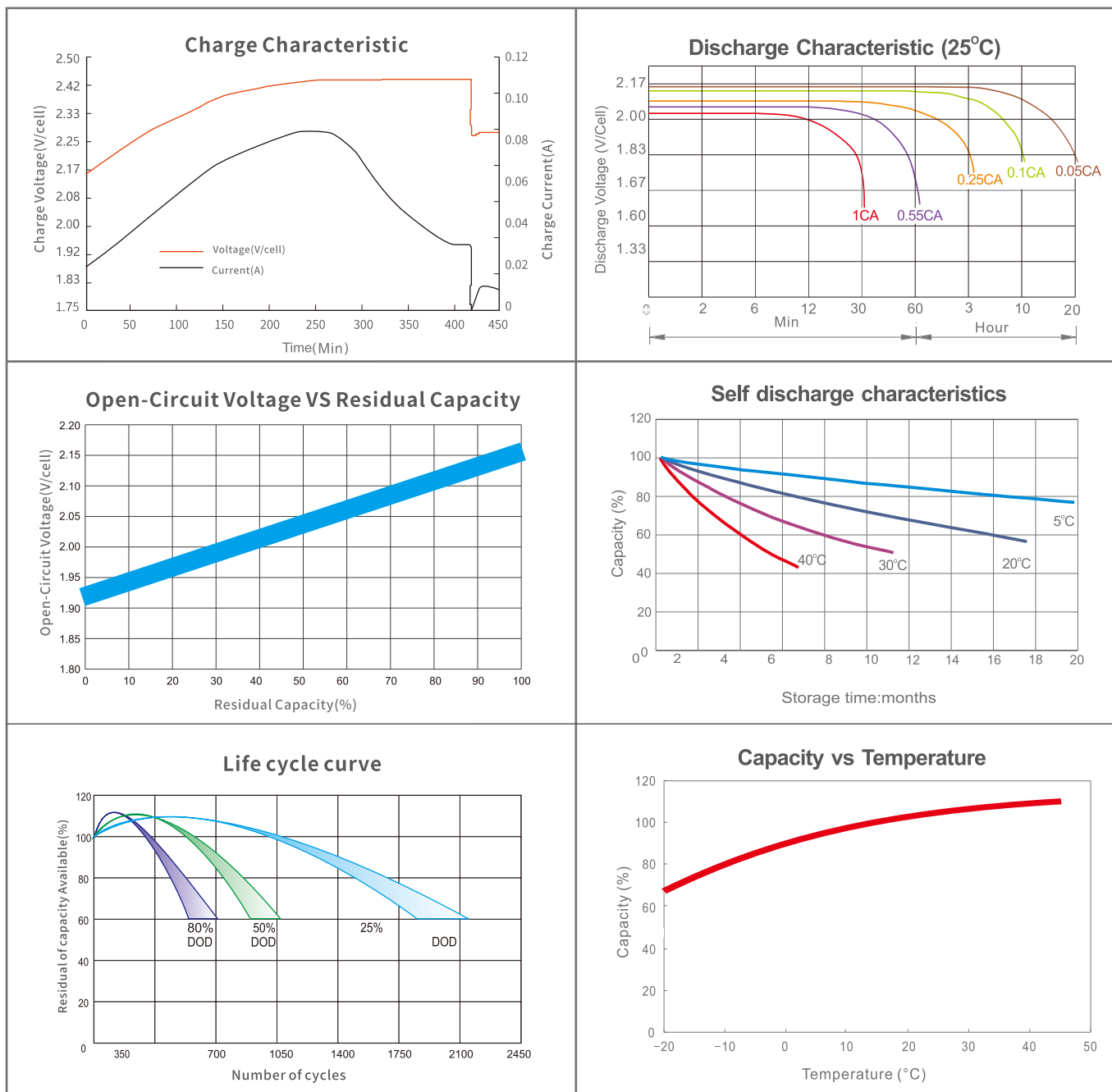
### Long-term discharge capacity parameters

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)
6-CNFJ-38	40.6	42.9	44.0	45.9	47.5
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

## 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	$\geq 1.85V_{pc}$	$\geq 1.80V_{pc}$	$\geq 1.75V_{pc}$	$\geq 1.70V_{pc}$	$\geq 1.60V_{pc}$

## CONTACT US:

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>

Note: All above information shall be changed without prior notice, CHISEN reserves the right to explain and update

