

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 **250Ah** capacity circular technology **12 years** design life



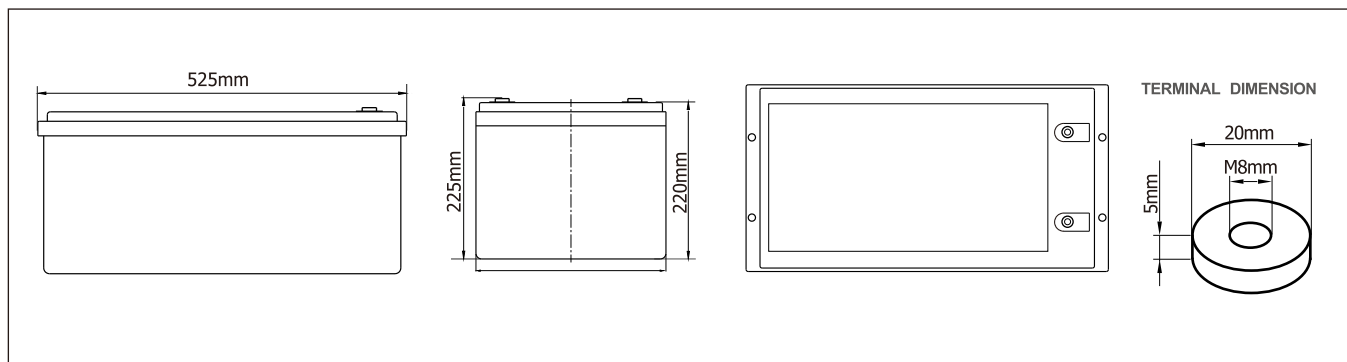
Complied standards

- IEC61427
- GB/T 22473
- UL1989

TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (25°C)	12Years
Nominal Capacity (25°C)	250Ah@C ₁₀ Capacitance, 25.0A discharging to be 10.8V
Dimension (mm)	L525mmxW268mmxH225mm
Approx. Weight	67.7kg
Terminal Type	Female Copper Insert M8 (torque:8-10N.m)
Internal Resistance	Approx.4.0mΩ (fully charged @ 25°C)
Max. Charge Current	30A
Max. Discharge Current (5S)	960 A
Self Discharge	Approx. 2.5% per month @25°C
Ambient Temperature	Discharge: -25~65°C Charge: -25~60°C Storage: -25~45°C
Float Charge Voltage	13.5V @ 25°C (-3mV / cell /°C)
Equalize and cycle Use Charge Voltage	14.1-14.4V @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	254	159	95.2	69.2	55.2	46.0	31.3	25.9	13.6
1.75V	245	156	93.5	68.1	54.6	45.4	30.9	25.5	13.4
1.80V	234	151	91.5	66.8	53.3	44.4	30.2	25.0	13.1
1.85V	221	144	88.0	64.6	51.8	43.3	29.5	24.4	12.8

F.V/Time	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.70V	475	300	181	132	105	88.9	61.0	50.6	26.9
1.75V	463	297	180	131	104	88.5	60.6	50.3	26.5
1.80V	446	289	177	130	102	87.1	59.7	49.7	26.2
1.85V	425	280	172	127	100	85.7	58.8	48.7	25.8

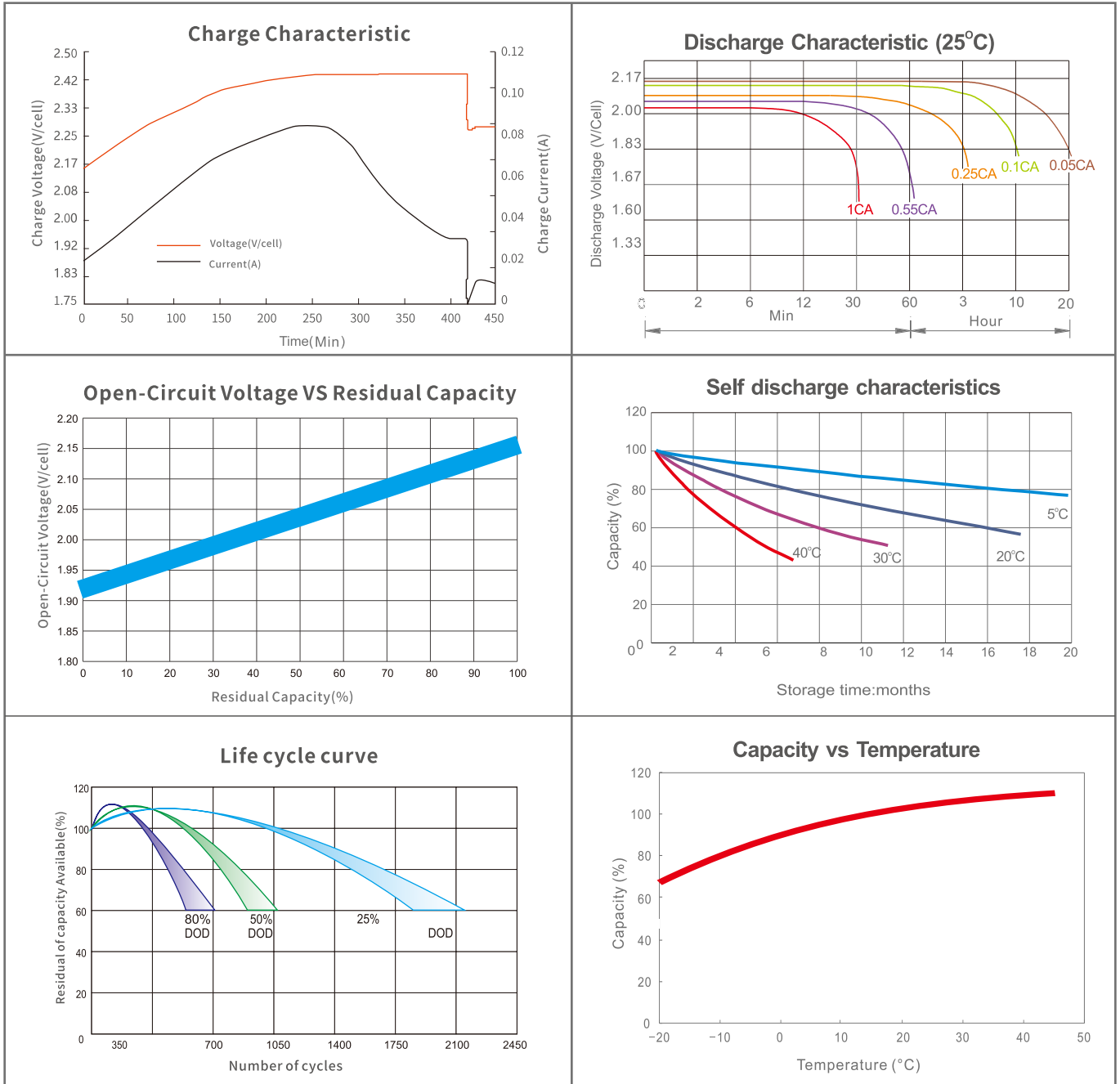
Long time discharge capacity for Solar & Wind applications

Capacity	C ₂₄ (Ah)	C ₄₈ (Ah)	C ₇₂ (Ah)	C ₁₀₀ (Ah)	C ₁₂₀ (Ah)
6-CNFJ-250	268	283	290	303	313
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	$\geq 1.85V_{pc}$	$\geq 1.80V_{pc}$	$\geq 1.75V_{pc}$	$\geq 1.70V_{pc}$	$\geq 1.60V_{pc}$

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

