

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 **200Ah** capacity circular technology **12 years** design life

TECHNICAL SPECIFICATIONS

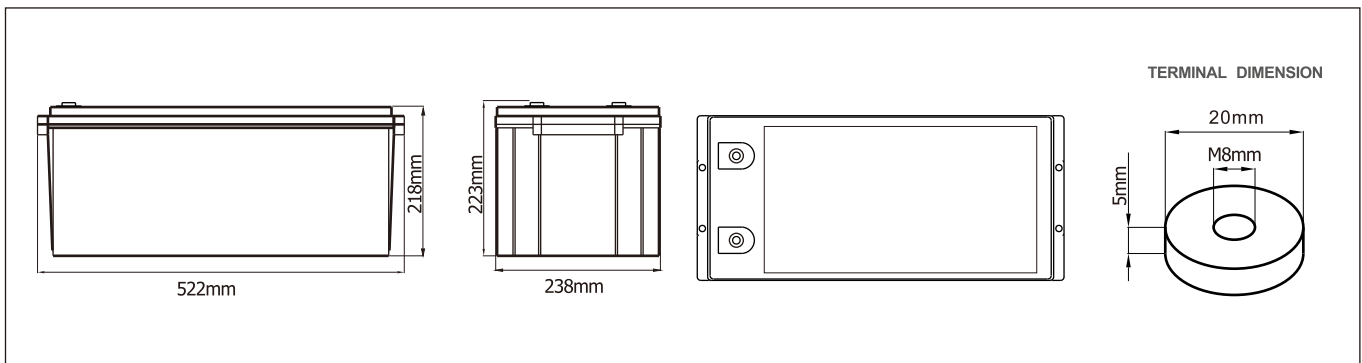
Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	12 Years
Nominal Capacity (25°C)	200 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L522mm x W238mm x H223mm
Approx. Weight	57.0Kg (125.4 lbs)
Terminal Type	Female Copper Insert M8 (torque:8~10N.m)
Internal Resistance	Approx. 0.003 Ohm (fully charged @ 25°C)
Max. Charge Current	50A
Max. Discharge Current (5S)	1500 A
Short Circuit Current	4000 A
Self Discharge	Approx. 2.5% per month @ 20°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	14.1-14.7V@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	203	127	76.1	55.3	44.1	36.8	25.1	20.7	10.9	
1.75V	196	125	74.8	54.5	43.6	36.4	24.7	20.4	10.7	
1.80V	187	121	73.2	53.4	42.6	35.5	24.1	20.0	10.5	
1.85V	177	115	70.4	51.7	41.4	34.6	23.6	19.5	10.3	

Long time discharge capacity for Solar & Wind applications

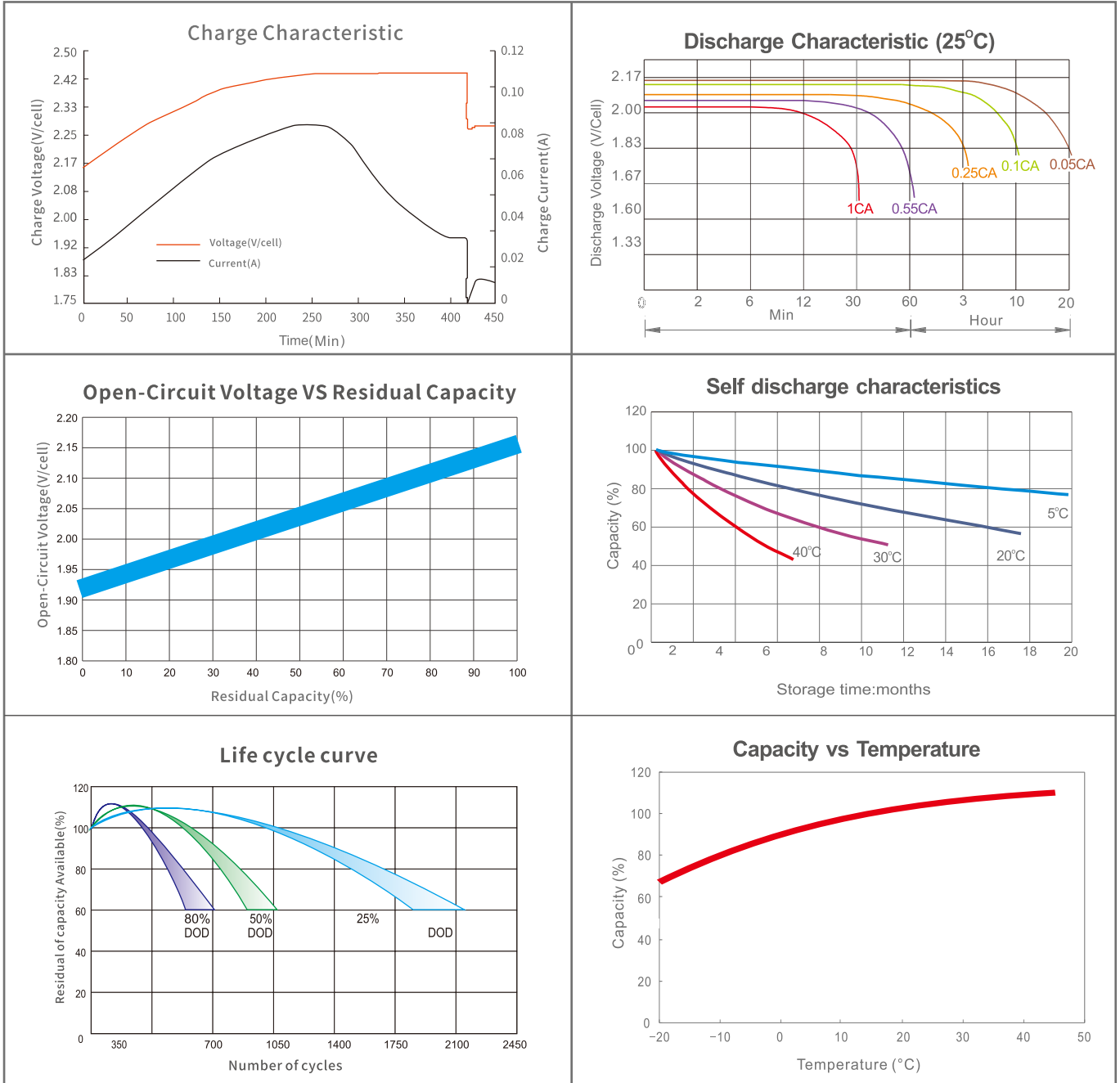
Capacity	C ₂₄ (Ah)	C ₄₈ (Ah)	C ₇₂ (Ah)	C ₁₀₀ (Ah)	C ₁₂₀ (Ah)
6-CNFJ-200	214	226	232	242	250
Final Voltage	1.85V				

Constant Power Discharge Characteristics: W/cell (25°C)										
F.V/Time	30min	1h	2h	3h	4h	5h	8h	10h	20h	
1.70V	380	240	145	106	84.8	71.1	48.8	40.5	21.5	
1.75V	370	237	144	105	84.6	70.8	48.5	40.2	21.2	
1.80V	357	232	142	104	83.3	69.7	47.8	39.7	21.0	
1.85V	340	224	138	101	81.7	68.5	47.0	38.9	20.6	

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