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 | 150Ah capacity | circular technology | 8years design life

ISO9001 ISO14001

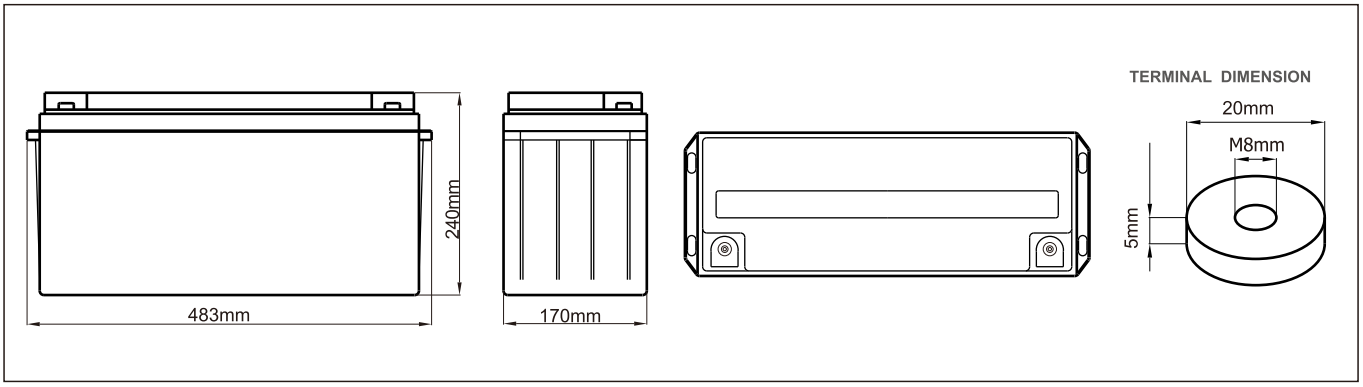
TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (25℃)	8 Years
Nominal Capacity (25℃)	150Ah@C_{10} Capacitance, 15.0A discharging to be 10.8V
Dimension (mm)	L483mmxW170mmxH240mm
Approx. Weight	42.8 kg
Terminal Type	Female Copper Insert M8 (torque:6~8N.m)
Internal Resistance	Approx.4.5mΩ (fully charged @ 25°C)
Max. Charge Current	27.5A
Max. Discharge Current (5S)	1200 A
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	14.4 ~ 14.7V @25°C
Equalize and cycle Use Charge Voltage	13.5 ~ 13.8V @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	155	96.4	57.1	41.5	33.1	27.6	18.8	15.5	8.18
1.75V	150	94.5	56.1	40.9	32.7	27.3	18.5	15.3	8.03
1.80V	143	91.4	54.9	40.1	32.0	26.6	18.1	15.0	7.87
1.85V	135	87.4	52.8	38.8	31.1	26.0	17.7	14.6	7.69

Constant Power Discharge Characteristics: W/cell (25°C)									
F.V/Time	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.70V	291	182	109	79.4	63.6	53.3	36.6	30.4	16.1
1.75V	283	180	108	78.8	63.4	53.1	36.4	30.2	15.9
1.80V	273	175	106	78.0	62.5	52.2	35.8	29.8	15.7
1.85V	260	170	103	76.1	61.2	51.4	35.3	29.2	15.5

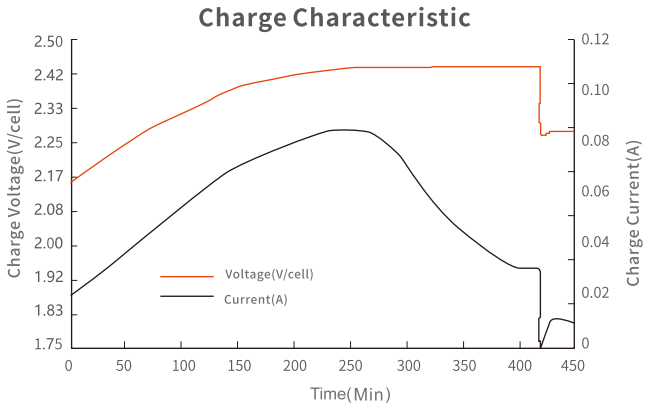
Long-term discharge capacity parameters

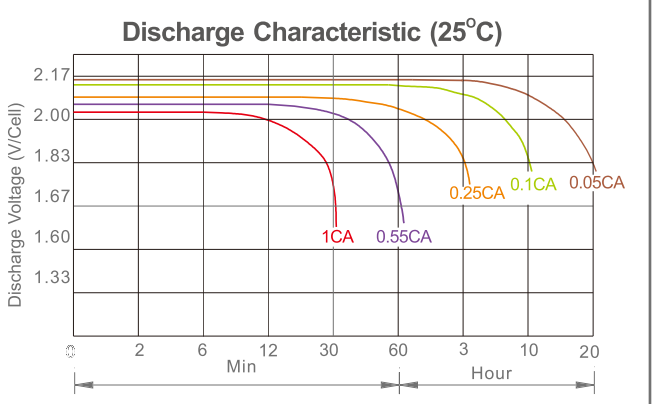
Capacity	C_{24} (Ah)	C_{48} (Ah)	C_{72} (Ah)	C_{100} (Ah)	C_{120} (Ah)
6-CNFJ-150	159	168	172	180	186
Final Voltage	1.85V				

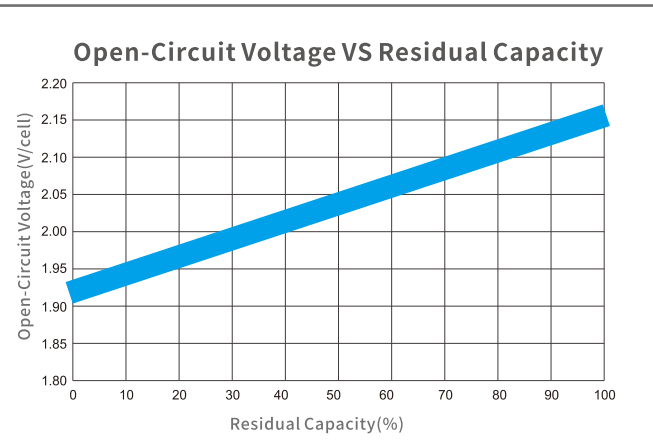
Solar & Wind applications parameters settings

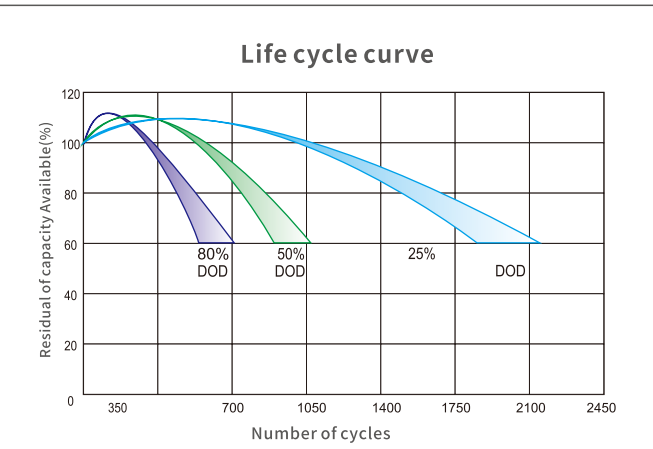
Over voltage disconnect:	2.45±0.01V/cell @ 25°C
Regulation/equalize voltage:	2.40±0.01V/cell @ 25°C
Array roconnection voltage:	2.25±0.005V/cell @ 25°C
Float voltage setting:	2.27±0.005V/cell @ 25°C
Low voltage alarm voltage:	1.95±0.005V/cell @ 25°C
Low voltage disconnect:	1.90±0.005V/cell @ 25°C
Load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

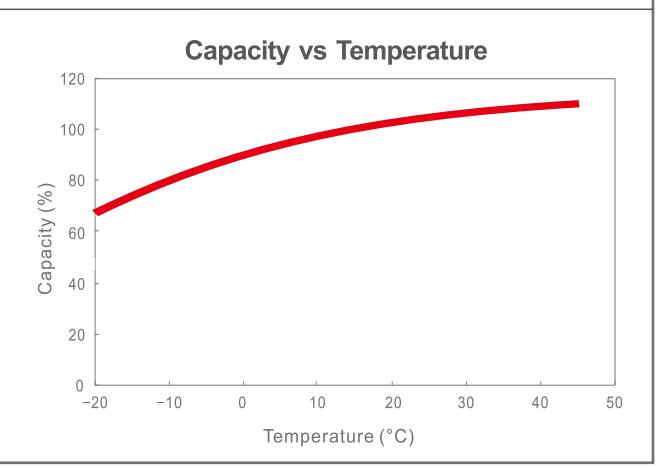
CHARACTERISTICS











FINAL VOLTAGE SETTINGS RECOMMENDED ACCORDING TO THE DISCHARGE CURRENT

Discharge Current Ⅰ (A)	I＜0.08C	0.08C≤I<0.2C	0.2C≤I<0.6C	0.6C≤I<1.0C	I≥1.0C
Final of Voltage	≥1.85Vpc	≥1.80Vpc	≥1.75Vpc	≥1.70Vpc	≥1.60Vpc

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