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 | 1500Ah capacity | circular technology | 12 years design life

ISO9001 ISO14001

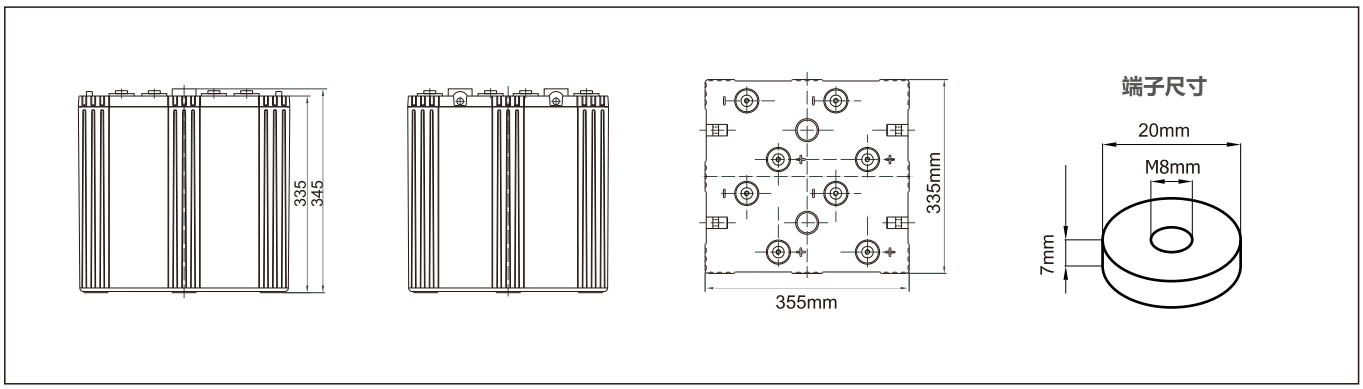
TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	2 (1 cells per unit)
Designed Floating Life (25℃)	12 Years
Nominal Capacity (25℃)	1200Ah@C_{10} Capacitance,120Adischarging to be 10.8V
Dimension (mm)	L353mmxW335mmxH345mm
Approx. Weight	87.0Kg
Terminal Type	Female Copper Insert M8 (torque:8-10N.m)
Internal Resistance	Approx. 0.23mΩ (fully charged @ 25°C)
Max. Charge Current	375A
Max. Discharge Current (5S)	5500A
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	1218	854	532	383	317	268	187	158	82.8
1.75V	1144	841	515	377	308	260	184	154	81.0
1.80V	1069	757	490	364	296	254	180	150	78.8
1.85V	983	704	445	348	282	242	175	146	76.4

Constant Power Discharge Characteristics: W/cell (25°C)									
F.V/Time	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.70V	2206	1553	1078	517	429	370	275	232	137
1.75V	2103	1504	1042	508	421	364	273	230	135
1.80V	1998	1428	1000	497	411	360	270	227	133
1.85V	1875	1318	931	481	405	355	266	224	130

Long time discharge capacity for Solar & Wind applications

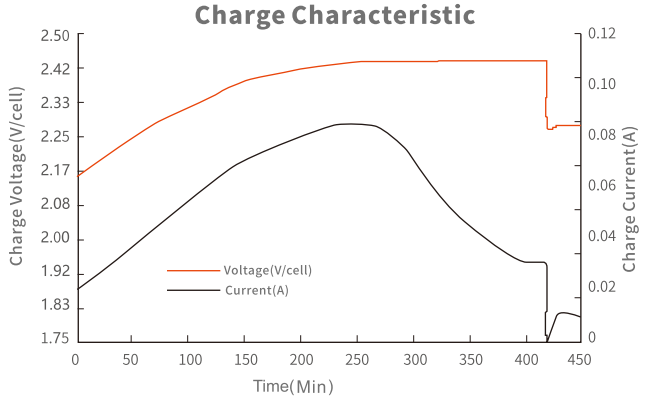
Capacity	C_{24} (Ah)	C_{48} (Ah)	C_{72} (Ah)	C_{100} (Ah)	C_{120} (Ah)
CNFJ-1500	1610	1680	1721	1775	1849
Final Voltage	1.85V				

Solar & Wind applications parameters settings

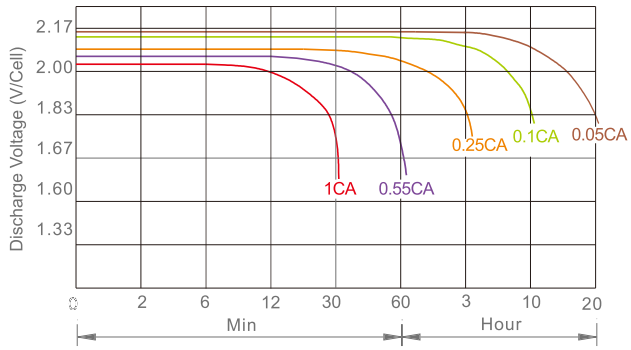
Over voltage disconnect:	2.45±0.01V/cell @ 25°C
Regulation/equalize voltage:	2.40±0.01V/cell @ 25°C
Array roconnection voltage:	2.25±0.005V/cell @ 25°C
Float voltage setting:	2.27±0.005V/cell @ 25°C
Low voltage alarm voltage:	1.95±0.005V/cell @ 25°C
Low voltage disconnect:	1.90±0.005V/cell @ 25°C
Load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

CHARACTERISTICS

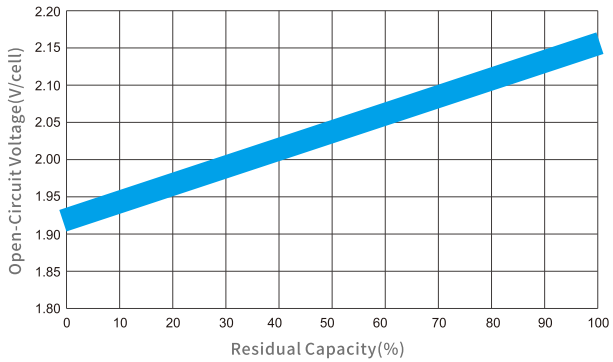
Charge Characteristic



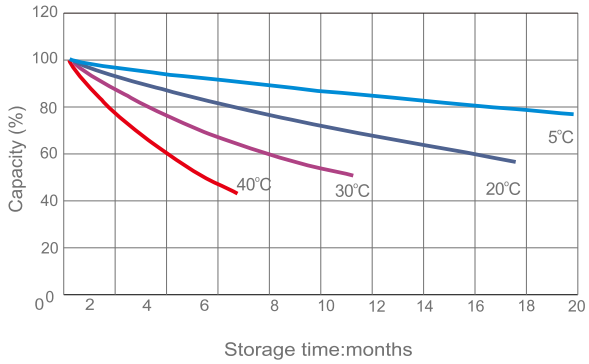
Discharge Characteristic (25°C)



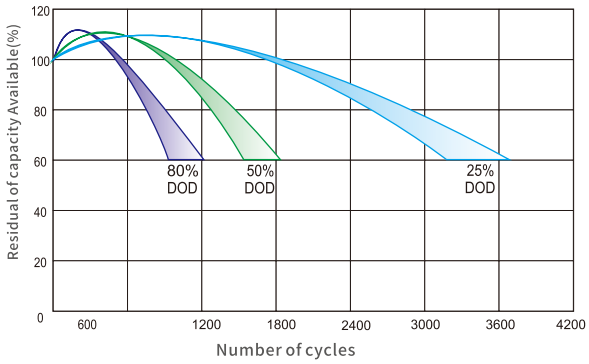
Open-Circuit Voltage VS Residual Capacity



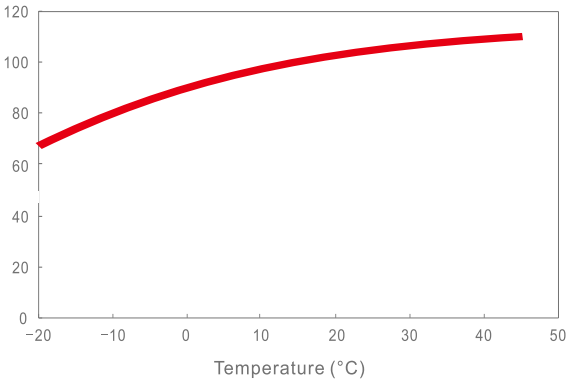
Self discharge characteristics



Life cycle curve



Capacity vs Temperature



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