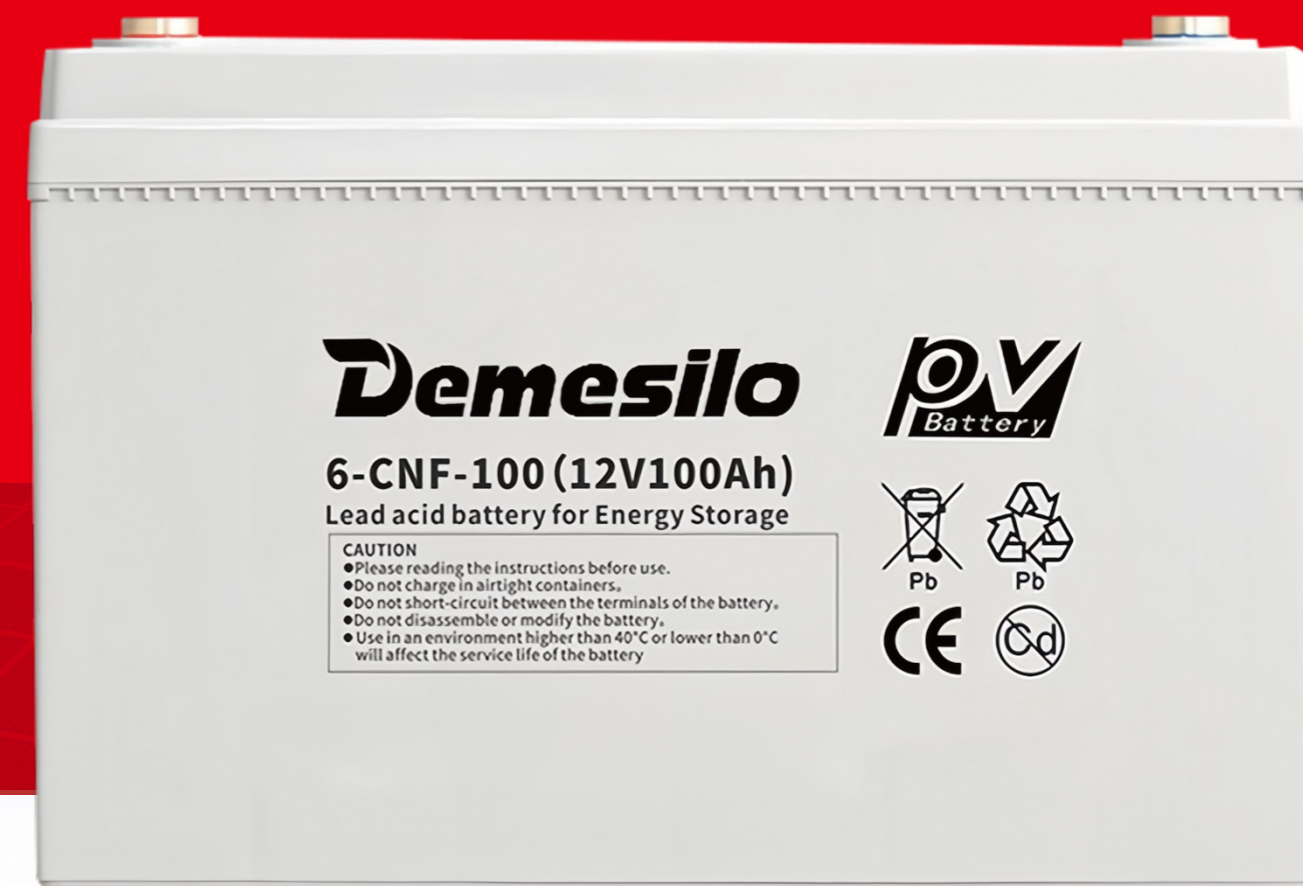


Product Parameters >

Demesilo

Sealed Lead Acid Energy Storage Battery

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More Product Parameters

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VERSION:20240606

Household Photovoltaic
Solar Solutions Supplier

BATTERY SERIES

6-CNF-80

BATTERY SERIES (12V80Ah)

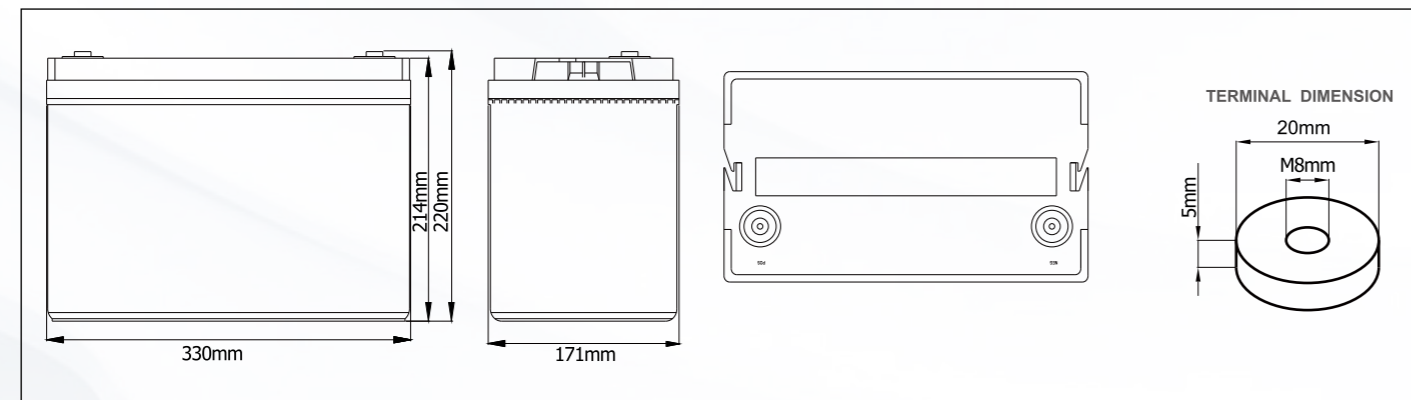


TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (20°C)	12 Years
Nominal Capacity (25°C)	80 Ah @ 10HR-rate (to 1.80Vpc)
Dimension (mm)	L330 mm x W171 mm x H220 mm
Approx. Weight	25.0 kg
Terminal Type	Female Copper Insert M6 (torque:6~8N.m)
Internal Resistance	Approx. 0.006 Ohm (fully charged @ 25°C)
Max. Charge Current	20A
Max. Discharge Current (5S)	800 A
Short Circuit Current	2000 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	14.4-14.7V @25°C
Container Material	ABS (UL94-V0 optional)



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	82.9	51.4	30.5	22.1	17.7	14.7	10.0	8.27	4.36
1.75V	80.0	50.4	29.9	21.8	17.5	14.5	9.88	8.16	4.28
1.80V	76.5	48.7	29.3	21.4	17.0	14.2	9.65	8.00	4.20
1.85V	72.2	46.6	28.1	20.7	16.6	13.9	9.44	7.79	4.10

Constant Power Discharge Characteristics: W/cell (25°C)									
F.V/Time	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.70V	155	97.1	58.0	42.4	33.9	28.4	19.5	16.2	8.60
1.75V	151	95.9	57.5	42.0	33.8	28.3	19.4	16.1	8.49
1.80V	146	93.6	56.7	41.6	33.3	27.9	19.1	15.9	8.39
1.85V	139	90.4	55.0	40.6	32.7	27.4	18.8	15.6	8.24

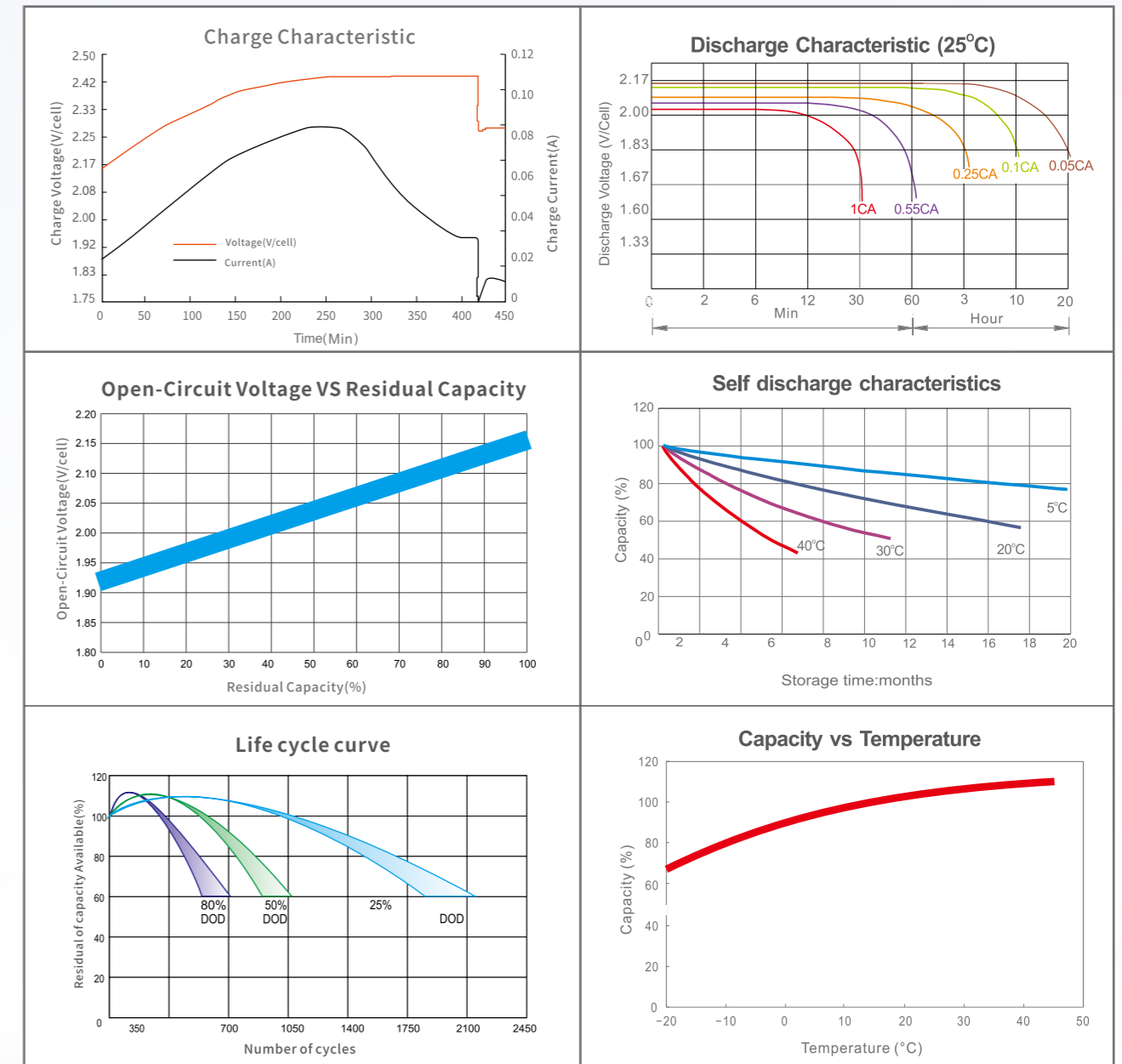
Long time discharge capacity for Solar & Wind applications

Capacity	C ₂₄ (Ah)	C ₄₈ (Ah)	C ₇₂ (Ah)	C ₁₀₀ (Ah)	C ₁₂₀ (Ah)
6-CNFJ-80	85.6	90.4	92.8	96.8	100
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 ≤ 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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BATTERY SERIES

6-CNF-100

BATTERY SERIES (12V100Ah)

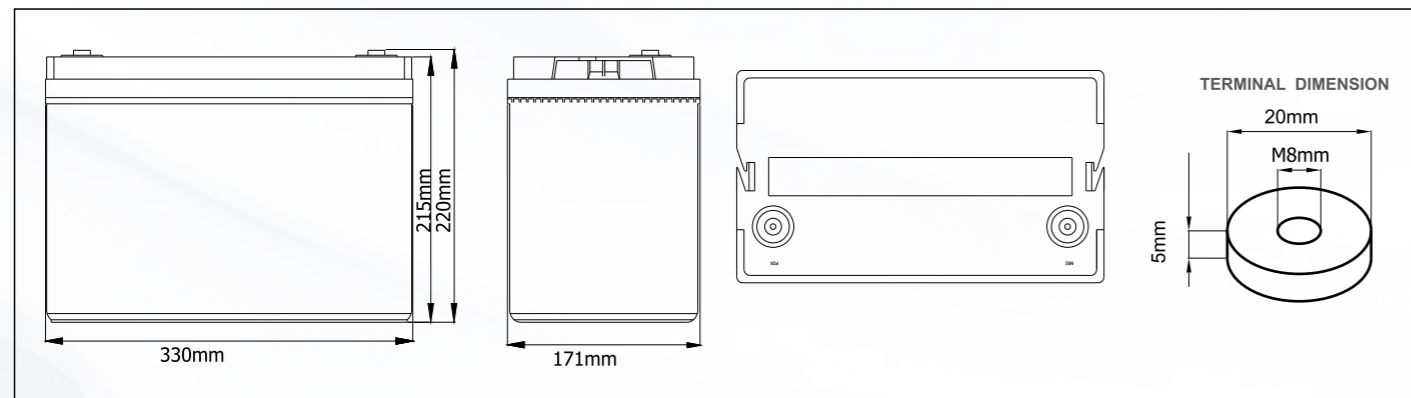


TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	12 (6 cells per unit)
Designed Floating Life (25°C)	8 Years
Nominal Capacity (25°C)	100Ah@C ₁₀ Capacitance, 10A discharging to be 10.8V
Dimension (mm)	L330mm x W171mm x H220mm
Approx. Weight	28.6 kg
Terminal Type	Female Copper Insert M6 (torque:6~8N.m)
Internal Resistance	Approx. 5mΩ (fully charged @ 25°C)
Max. Charge Current	25.0A
Max. Discharge Current (5S)	800 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)



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	104	64.3	38.1	27.7	22.1	18.4	12.5	10.3	5.45
1.75V	100	63.0	37.4	27.2	21.8	18.2	12.4	10.2	5.35
1.80V	95.6	60.9	36.6	26.7	21.3	17.7	12.1	10.0	5.25
1.85V	90.2	58.3	35.2	25.8	20.7	17.3	11.8	9.74	5.13

Constant Power Discharge Characteristics: W/cell (25°C)									
F.V/Time	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.70V	194	121	72.5	52.9	42.4	35.5	24.4	20.2	10.7
1.75V	189	120	71.8	52.6	42.3	35.4	24.3	20.1	10.6
1.80V	182	117	70.9	52.0	41.7	34.8	23.9	19.9	10.5
1.85V	174	113	68.8	50.7	40.8	34.3	23.5	19.5	10.3

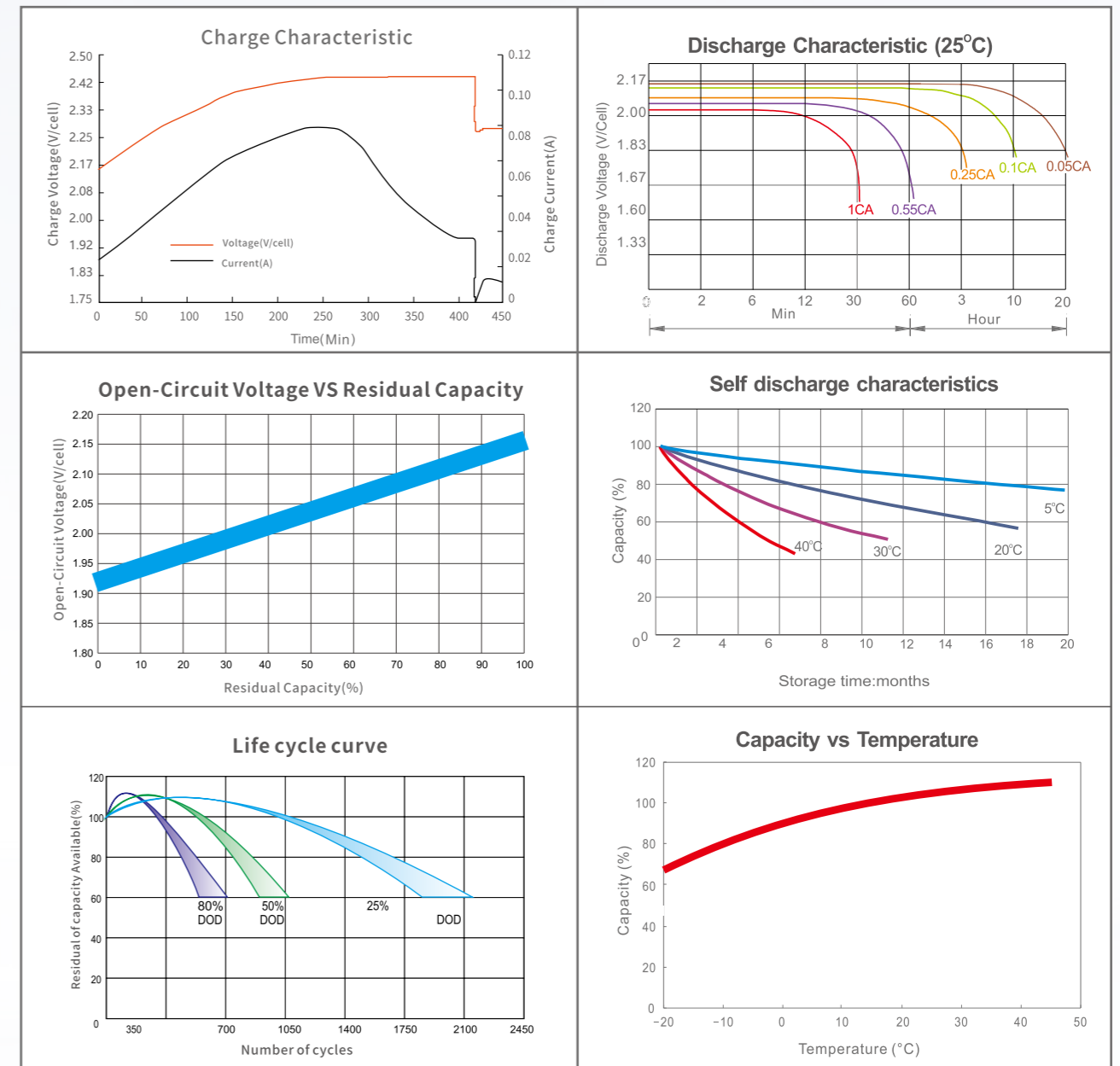
Long-term discharge capacity parameters

Capacity	C ₂₄ (Ah)	C ₄₈ (Ah)	C ₇₂ (Ah)	C ₁₀₀ (Ah)	C ₁₂₀ (Ah)
6-CNFJ-100	106	112	115	121	125
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 ≤ 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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BATTERY SERIES

6-CNF-200

BATTERY SERIES (12V200Ah)

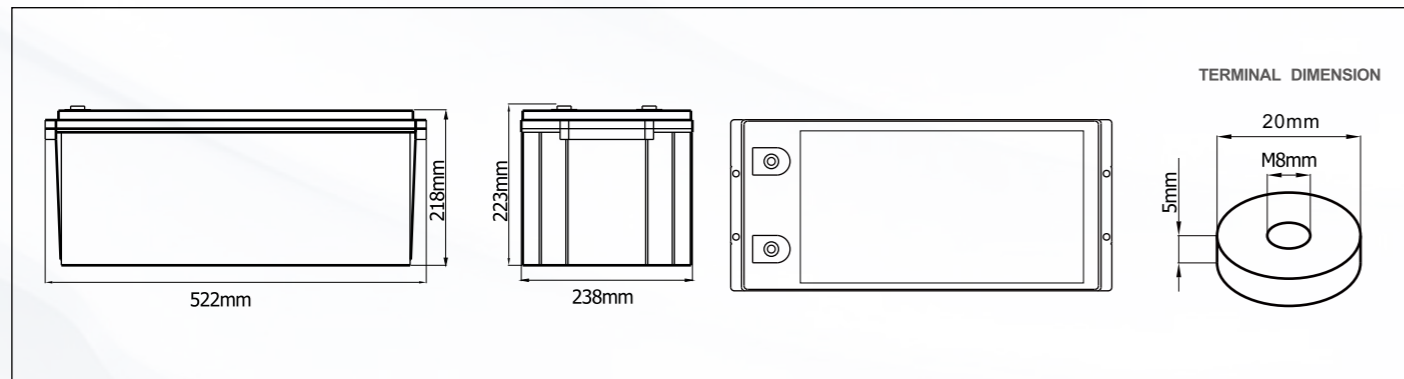


TECHNICAL SPECIFICATIONS

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)



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

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

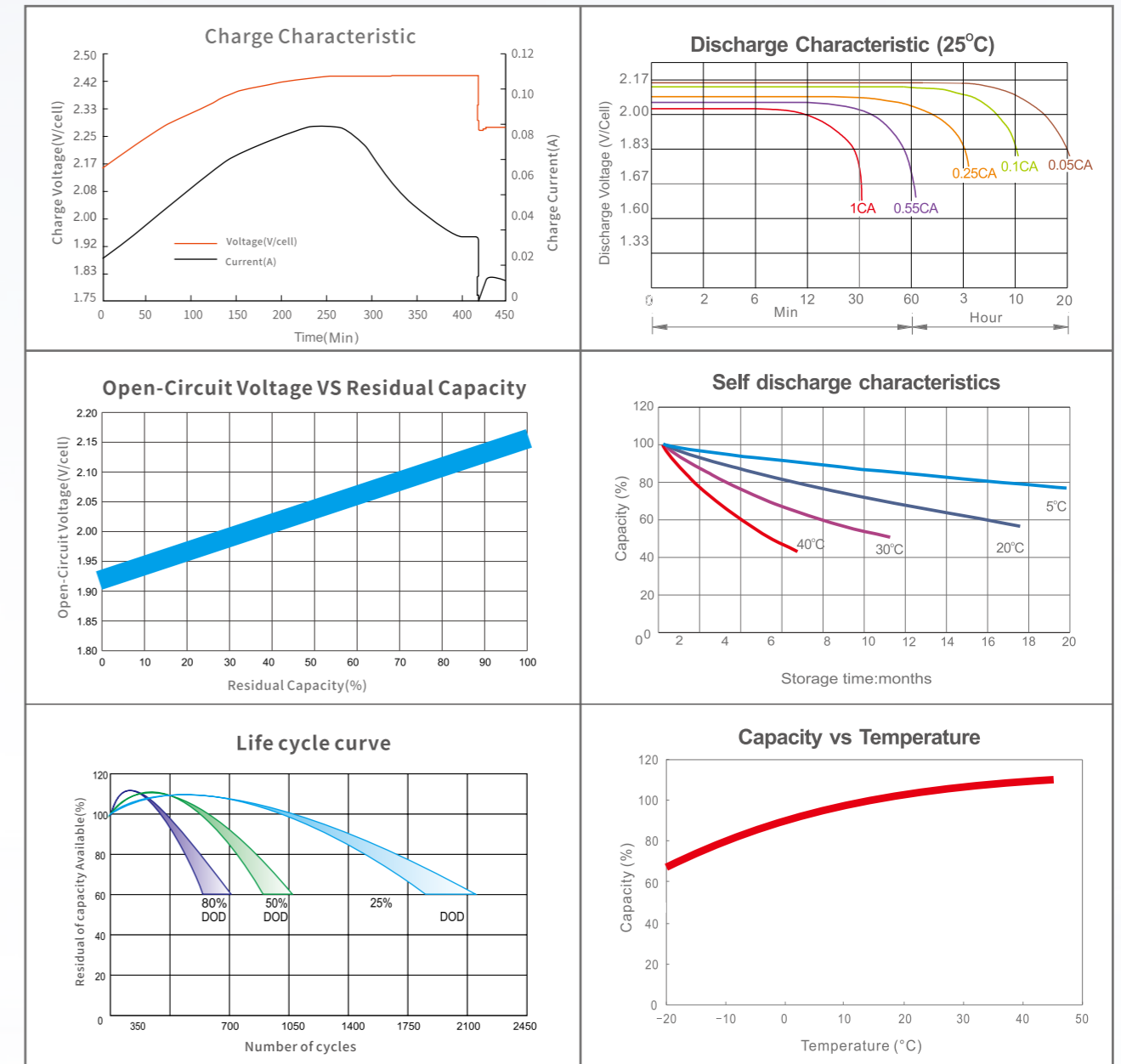
Long time discharge capacity for Solar & Wind applications

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				

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 ≤ 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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