



STORED ENERGY SOLUTIONS FOR A DEMANDING WORLD



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PRODUCTS OVERVIEW

Lithium Batteries

- NPFC Series
- PFGT Series
- IPF Series
- IDC Series
- NESR Series
- Edge F Series
- Motive Battery Series
- Golf Cart Series
- Two-wheel Battery Series

Lead Batteries

- REX-C Series
- 313K Series
- Acme Series
- NDG Series
- Ares OPzV Series
- HRL/HRXL Series



CORPORATE PROFILE

- Established in 1994 and Listed in 2010
- More than 7000 employees and 8 manufacturing bases
- Gained over 1000 patents and participated standards formulation
- Lithium and lead battery solutions
- Four major applications including energy storage, data centers, industrial backup, electric vehicle
- Sales over 160 countries and regions



Corporate Culture

Vision

SMART ENERGY BETTER LIFE

Value



Honor



TL9000



SA8000



ISO9001



IATF16949



ISO14001



ISO45001

Lithium Batteries

LiFePO₄ (Lithium Iron phosphate) battery.

Used for various applications: Telecom, UPS, ESS, Hybrid Power, Marine, etc.



Intelligent BMS ensures the safe operation.



International standard and certification compliance.



Deep cycle, long life, and excellent operational performance.

5G



NPFC SERIES



Application

Telecom, UPS system, Power system and Small energy storage system, etc.

Technical Characteristics

- ⊕ 19" standard rack installation.
- ♻️ Full capacity range: 20Ah~200Ah.
- 🕒 Design life at 25°C (77°F) : 15 years.
- 🔒 Various optional anti-theft solutions: software, gyro, GPS/GPRS, etc.
- 📡 CAN, RS485, TCP/IP optional, mainstream brand communication compatible.

General Specification

Type	Dimension (mm)			Battery Output Terminal	Weight (kg)
	Width (fit rail)	Height	Depth	φ	
48NPFC20	442.5	88	280	M4	13
48NPFC30	442.5	133	394	M6	26.5
48NPFC40	442.5	133	350	M6	37.5
48NPFC100	442.5	133	400	M6	39
48NPFC150	442.5	133	440	M6	40
48NPFC150	442.5	222	480	M6	78
48NPFC150	442.5	160	550	M6	58
48NPFC160	442.5	222	480	M6	78
48NPFC200	442.5	222	480	M6	75
48NPFC200	442.5	222	550	M6	78

PFGT SERIES



Application

5G micro-station, Light pole station, and Light tower, etc.

Technical Characteristics

- ☉ IP65 degree, pole installation of outdoor.
- 🔥 Automatic heating at low temperature.
- 🔧 Flexible configuration for easy installation and parallel expansion.
- 🔋 High rate discharge, up to 2C.
- 📶 Configurable GPS, Bluetooth, WIFI, for remote monitoring and upgrading.

General Specification

Type	Rated Capacity (Ah)	Dimension (mm)			Weight (kg)
		Width (No ear)	Height	Depth	
PFGT20	20	313.0	156.0	376.4	16.5
PFGT30	30	441.0	125.0	433.7	23.5
PFGT40	40	390.0	210.0	375.1	26.0
PFGT50	50	510.0	273.0	498.5	34.0

IPF SERIES



Application

Hybrid system, telecom, UPS system, etc.

Technical Characteristics

- 🔋 Mixed use with lead-acid batteries, old batteries and different lithium brands.
- 🔧 Up to 32 modules in parallel, with maximum 32KW output.
- 🔧 Automatically addressed for paralleled modules.
- ⚡ Intelligent voltage boost and wide operating voltage range.

General Specification

Type	Dimension (mm)			Battery Output Terminal	Weight (kg)
	Width (No ear)	Height	Depth		
IPF4000	440.0	120.0	400.0	NS	40.0

IDC SERIES



Application

Data center, Scientific research institution, Hospital, Rail transit, etc.

Technical Characteristics

- ⌚ High rate performance, 0.5-6C, 10-120mins back-up.
- ⚡ Wide operating voltage range: 240-691V.
- 🏠 Three-level BMS management structure.
- 🔥 Cabinet-level fire-fighting system.
- 🔗 Matching two-wire and three-wire UPS systems.

General Specification

Type	Maximum Power (kW)	Dimension (mm)			Weight (kg)
		Width (No ear)	Height	Depth	
SL2NEP10	180	500	2135	700	540
SL2NEP300	360	1000	2000	800	1210
SL2NEP200	360	1000	2000	800	1250
SL2NEP200	64	1000	2000	800	1300

NESR SERIES



Application

Household energy storage, Telecommunication, UPS system, etc.

Technical Characteristics

- 📱 Stacking or 19" cabinet installation.
- 📱 Intelligent operation with mobile APP.
- 🔋 Up to 16 modules in parallel, with maximum 164kWh output.
- 📅 Up to 6000 cycles@0.5C, at 25°C.
- 🔌 Various mainstream inverters compatible.

General Specification

Type	Rated Energy(kWh)	Dimension (mm)			Battery Output Terminal	Weight (kg)
		Width (No ear)	Height	Depth		
NESR4020	4.5	442.5	222	440	48	45
NESR4020	10.5	442.5	222	700	48	80

EDGE F SERIES



Application

Small Industrial Energy Storage, Power system, UPS system, etc.

Technical Characteristics

- Flexible deployment.
- Ultimate integration.
- High level of safety.
- Ultra long life.
- Intelligent operation.
- Emergency standby.

General Specification

Battery Rated Capacity		200Ah
Electrical	DC Rated Voltage	T280~510V
	Maximum Charge/Discharge Rate	0.5C
	DC Rated Energy	200kWh
Performance & Safety	DC Round Trip Efficiency @ Rated Power	90%~95%
	Battery Chemistry	LFP
	Calendar Life	20 years
	Fire Suppression	Gas (water optional)
	Cooling Concept of Battery Chamber	Air cooling
	Codes & Certificates	UL9540/UL9540A/IEC62476/GB31240
	Weight (Approximate)	3T
General Data (Combined BMS)	Enclosure Dimensions (W*H*D)	1800*2075.5*1200
	Enclosure Rating	IP55
	Operating Temperature Range	-30°C~50°C
Software	Communication Interface	RS485, CAN, LAN, 4G
	Communication Protocols	Modbus TCP/Modbus RTU/CAN

*The data in this table is for reference only, and the actual product shipped shall prevail.

MOTIVE BATTERY



Application

EV, Truck, Bus, Forklift, Mining Machinery, Other special vehicle, etc.

Technical Characteristics

- Ultra long range.
- Ultra long design life.
- Fast charging.
- Great safety.
- Full capacity range: 30Ah~200Ah.
- Charging time from 20%~80% in 40 minutes.

General Specification

Module	Cell	Cell (interconnection)	Voltage (V)	Capacity (Ah)	Energy Density (Wh/kg)	Cycle life (0.5C/25°C standard)	Maximum discharge current(A)	Energy (kWh)	Minimum			Weight (kg)	Temperature range(°C)	
									Width(W)	Depth(D)	Height(H)		Charge	Discharge
NFE20005	FE100A	2P4S	19.2	330	145.0	≥2000 Cycles	300	5.84	470	135	212	26.5	0~45	-30~55
NFE20008		3P4S	12.8	300			300							
NFE100422		2P12S	38.4	105			125							
NFE22005	FE100A	2P5S	19.2	330	130.0	≥2000 Cycles	215	4.050	470	130	201	30.5	0~45	-30~55
NFE31508		3P4S	12.8	315			315							
NFE42005		4P5S	9.6	420			310							

GOLF CART SERIES



Application

Golf cart, sanitation car, tricycle, etc

Technical Characteristics

- ✓ Compact Design.
- ✓ Rugged Structure.
- ✓ Lower Operation Cost.
- ✓ Adaptable to Complex working condition.

General Specification

Connection	Golf Carts
Rated Voltage	51.2V
Rated Capacity	38Ah
Rated Energy	5.22kWh
Max Constant Charge	100A
Max Constant Discharge	100A
Insulation Resistance	>20MΩ (20°C/50%)
Weight	34.5kg
Dimension	587*307*240
IP level	IP67
Thermal Control	Air Cooling + Heating
Operation Temp	Discharge: -20~40°C; Charge: 0~45°C
Cycle Life	>2000 Cycles

TWO-WHEEL SERIES



Application

E-bike, E-motorcycle, etc.

Technical Characteristics

- ✓ Collision/impact/high temperature/water/explosion resistance.
- ✓ Cycle life over 2000 times.
- ✓ Small size and light weight for easy carry.
- ✓ Environmental friendly with zero heavy metals.
- ✓ Charging fast within one hour available.
- ✓ Anti theft function by GPS/GPRS module (Optional).

General Specification

Type	Normal voltage (V)	Normal capacity (Ah)	Continuous discharge current (A)	Cycle Count (0.1C/0.5C @ 70% Non-Initial Capacity)	Dimension (mm)			Weight (kg)
					L	W	H	
4420	44	20	20	1200	163	155	204	9.7
4620	44	20	20	1200	175	120	200	7.3
4621	44	21	25	1200	180	130	205	8.5
4820	48	23	23	1300	180	150	225	8.2
4824	48	24	24	1200	185	155	265	8.5
4825	48	25	25	1200	180	120	320	10
4826	48	26	26	1200	184	130	300	10.5
4826	48	26	26	1200	183	155	260	9
6020	60	20	20	1200	185	156	260	9.7
7220	72	20	20	1200	185	156	265	11

Lead Batteries

Comply with IEC, IEEE, UL, EN, CE standards, etc.

Applications: Telecom, UPS, Energy storage, etc.



Design life at 25°C (77°F)
at 12+ years



0% Maintenance-free



Wide operating
temperature range



REX-C SERIES



Application

Energy storage system, Power Systems, etc.

Technical Characteristics

- Excellent cycle performance.
- Excellent deep discharge performance.
- Outstanding PSOC cycle performance.
- Design life at 25°C (77°F): 20+ years.

General Specification

Type	Nominal Voltage (V)	Rated Capacity (Ah)		Dimension (mm)				Weight (kg)
		C10	Length	Width	Height	Overall Height		
REXC-200	2	200	227.0	96.0	291.0	203.0	17.0	
REXC-300	2	300	225.0	136.0	291.0	203.0	24.0	
REXC-400	2	400	227.0	176.0	291.0	203.0	31.0	
REXC-500	2	500	231.0	135.0	291.0	408.0	39.0	
REXC-600	2	600	231.0	180.0	291.0	408.0	46.0	
REXC-800	2	800	231.0	231.0	291.0	408.0	61.0	
REXC-1000	2	1000	231.0	182.0	291.0	408.0	76.0	
REXC-1200	2	1200	232.0	244.0	291.0	514.0	96.0	
REXC-1500	2	1500	232.0	322.0	291.0	514.0	120.0	
REXC-2000	2	2000	232.0	406.0	291.0	514.0	155.0	

313K SERIES



Application

Outdoor telecom, Power Systems, Other backup systems.

Technical Characteristics

- Extra high cycling performance.
- The shell is made of high temperature resistant material.
- Super long design life.

General Specification

Type	Nominal Voltage (V)	Rated Capacity (Ah)		Dimension (mm)				Weight (kg)
		C10	C20	Length	Width	Height	Overall Height	
H7B-200F	2	200	180	184.5	119.0	95.5	170.0	17.0
H7B-300F	2	300	240	245.0	134.0	90.5	170.0	22.0
H7B-400F	2	400	320	284.5	166.0	90.5	170.0	27.0
H7B-500F	2	500	400	324.5	194.5	90.5	170.0	32.5
H7B-600F	2	600	480	333.0	194.5	90.5	170.0	37.5
H7B-800F	2	800	640	364.0	215.5	95.5	177.0	55.5
H7B-1000F	2	1000	800	384.0	277.5	95.5	177.0	65.5
H7B-1200F	2	1200	960	384.0	330.0	90.5	174.0	88.0
H7B-1500F	2	1500	1200	421.0	322.0	90.0	174.0	106.0
H7B-2000F	2	2000	1600	422.0	456.0	90.0	174.0	150.0
12HT100	12	100	90	290.0	108.0	232.0	187.0	35.0
12HT150	12	150	135	346.0	125.0	210.0	210.0	55.5
12HT170	12	170	153	349.0	125.0	210.0	210.0	65.5
12HT190F	12	190	171	355.0	128.0	212.0	217.0	75.5
12HT150F	12	150	135	300.0	125.0	210.0	203.0	47.0
12HT170F	12	170	153	350.0	125.0	210.0	203.0	58.0
12HT190F	12	190	171	353.0	125.0	210.0	210.0	67.5
12HT200F	12	200	180	373.0	125.0	210.0	214.0	78.0
12HT150T	12	150	135	301.0	130.0	203.0	207.0	44.0

ACME SERIES



Application

Telecom, UPS system, Other backup systems.

Technical Characteristics

- Front terminal design suited for standard 19"/21" cabinet.
- Convenient installation and maintenance.
- CCPP (Continue Casting Punch Plates) technology.

General Specification

Type	Nominal Voltage (V)	Rated Capacity (Ah)		Dimension (mm)				Weight (kg)
		C10	C20	Length	Width	Height	Overall Height	
12AC100S	12	100	90	295.0	104.0	214.0	187.0	36.0
12AC150S	12	150	135	350.0	125.0	212.0	203.0	47.0
12AC170S	12	170	153	350.0	125.0	212.0	203.0	50.0
12AC190S	12	190	171	358.0	125.0	209.0	216.0	57.0
12AC200S	12	200	180	358.0	125.0	209.0	216.0	58.0
12AC150FT	12	150	135	300.0	110.0	216.0	207.0	44.0

NDG SERIES



Application

Telecom, Energy storage system, Metro, etc.

Technical Characteristics

- Gel battery.
- Mechanical capacity to resist high temperature.
- Low self-discharge rate.
- Adopting advanced gas phase SiO₂.
- Advanced phenolic resin separator.

General Specification

Type	Nominal Voltage (V)	Rated Capacity (Ah)		Dimension (mm)				Weight (kg)
		C20	C10	Length	Width	Height	Overall Height	
12NDG60	12	60	70	271.0	172.0	225.0	228.0	21.3
12NDG70	12	70	80	271.0	172.0	238.0	228.0	24.3
12NDG100	12	100	120	408.5	173.0	227.0	222.0	34.0
12NDG115	12	115	135	408.5	173.0	232.0	222.0	38.0
12NDG135	12	135	155	528.0	188.5	227.0	227.0	47.8
12NDG155	12	155	180	528.0	188.5	227.0	227.0	51.0
12NDG170	12	170	200	528.0	188.5	227.0	227.0	56.0
12NDG200	12	200	240	527.0	254.0	227.0	227.0	69.4
12NDG240	12	240	280	527.0	254.0	227.0	227.0	73.0

ARES (OPZV) SERIES



Application

Telecom, UPS system, Utility system, Energy storage system, etc.

Technical Characteristics

- Tubular gel technology battery.
- Positive tubular plate.
- Adopting advanced gas phase SiO₂.
- Adopting PVC-SiO₂ separator.
- Super long design life.

General Specification

Type	Nominal Voltage (V)	Rated Capacity (Ah)		Dimension (mm)				Weight (kg)
		C10	C20	Length	Width	Height	Overall Height	
40PzV200	2	200	250	303.0	208.0	226.0	289.0	18.0
60PzV300	2	300	380	345.0	208.0	226.0	289.0	25.0
80PzV400	2	400	500	345.0	208.0	473.0	505.0	31.5
100PzV500	2	500	630	345.0	208.0	473.0	545.0	36.5
120PzV600	2	600	750	345.0	208.0	545.0	678.0	45.0
150PzV750	2	750	930	345.0	208.0	545.0	678.0	56.0
180PzV900	2	900	1100	345.0	208.0	645.0	678.0	72.5
200PzV1000	2	1000	1250	345.0	208.0	645.0	678.0	87.0
120PzV1500	2	1500	1870	275.0	212.0	795.0	827.0	105.3
180PzV2100	2	2100	2560	399.0	212.0	770.0	822.0	142.1
200PzV2500	2	2500	3070	407.0	212.0	770.0	822.0	176.5
240PzV3000	2	3000	3680	506.0	212.0	770.0	822.0	212.8



HRL/HRXL SERIES



Application

Data center, UPS system, Telecom, Other backup systems.

Technical Characteristics

-  Premium design for high reliability and safety.
-  Both top and front terminals are available.
-  Extreme high rate discharge.
-  Full power check of all batteries.

General Specification

Type	Nominal Voltage (V)	15 Rated Power (W, I ₅₇₀₀)	Dimension (mm)				Weight (kg)
			Length	Width	Height	Overall Height	
HRL750	2	750	283.0	183.0	240.0	370.0	28.1
HRL850	2	850	284.5	205.0	260.0	372.0	28.5
HRL1100	2	1000	284.5	223.0	280.0	370.0	28.7
HRL1150	2	1100	283.5	232.0	290.0	370.0	23.5
HRL1200	2	1200	284.5	244.5	280.0	370.0	28.7
HRL1300	2	1300	284.5	266.0	280.0	370.0	26.4
HRL1520	2	1520	284.5	279.5	260.0	370.0	30.2
HRL1750	2	1750	284.5	223.0	350.0	370.0	32.7
HRL2000	2	2000	284.5	223.0	380.0	370.0	37.0
HRL2500	2	2500	284.0	279.5	380.0	372.0	41.6
HRL2700	2	2700	290.1	308.5	380.0	372.0	56.4
12HRL310	12	310	261.0	179.0	206.0	266.0	24.8
12HRL410	12	410	261.0	179.0	215.0	266.0	24.0
12HRL550	12	550	261.0	179.0	270.0	278.0	46.0
12HRL610	12	610	261.0	179.0	280.0	283.0	52.0
12HRL820	12	820	260.0	225.0	280.0	282.0	55.0
12HRL710	12	710	261.0	179.0	310.0	316.0	64.0
12HRL845	12	845	222.0	236.5	222.0	222.0	69.0
12HRL1400	12	410	261.0	179.0	215.0	266.0	24.0
12HRL1550	12	550	261.0	179.0	270.0	278.0	46.0
12HRL1700	12	710	261.0	179.0	310.0	316.0	64.0

SMART ENERGY BETTER LIFE

