



NPP

CLEAN ENERGY, SAFE POWER

LITHIUM-ION BATTERIES

Company Introduction

NPP Power focuses on R&D, manufacturing and sales of traditional and new energy products, including valve-regulated lead-acid batteries and lithium batteries.

At present, the company has five A to Z manufacturing plants, four in China (Dongguan, Guangzhou, Henan and Hunan) and one in Ho Chi Minh City, Vietnam. NPP Power has sales offices all over mainland China and overseas sales subsidiaries in North America, Europe, and Africa. It has built a truly global manufacturing, distribution, marketing and after-sales service network.

NPP Power products are manufactured based on strong technical expertise, coupled with advanced manufacturing equipment. With professional Management and R&D Team, the company acquired ISO9001 quality management system, ISO14001 environment management system, and ISO45001 health and safety management system certifications. Furthermore, Chenzhou NPP Power Co., Ltd. was certified as a high-tech enterprise in China.

We pay great attention to the quality of our products. Strict quality control from the raw materials to the finished products ensures every battery reaches the highest quality standards. NPP Power products own a variety of international certificates and comply with all applicable standards.

NPP Power Dongguan factory, China



NPP Power Vietnam factory

Milestones

- **2002** 1st factory founded in Guangzhou, with a total area of 40,000m²
- **2003** Shanghai & Guangzhou offices established
- **2005** Beijing, Shenzhen & Chengdu offices established
- **2010** Shenyang & Xi'an offices established
- **2011** 2nd factory founded in Jiaozuo, a total area of 70,000m²
- **2012** Total 16 sales offices located in China
- **2013** 3rd factory founded in Chenzhou, a total area of 200,000m²
- **2014** North American office & warehouse established in Los Angeles, USA
- **2017** 4th factory founded in Dongguan, manufacturing lithium batteries and solar panels
- **2017** European office & warehouse established in Rotterdam, The Netherlands
- **2018** 5th factory founded in Ho Chi Minh City, Vietnam, a total area of 72,280m²
- **2018** African office & warehouse established in Lagos, Nigeria
- **2019** Second phase of Vietnam factory expansion
- **2021** Lithium cells production line are built

NPP Power Henan factory, China



NPP Power Guangzhou factory, China



NPP Power Hunan factory, China





Our Culture

For the customer • By the customer • Of the customer

Customer Service

100% Customer Satisfaction Service
HEE Principle - Your Hands • Your Eyes • Your Ears
Six Sigma • 6S



LFP Series

LiFePO₄ Technology in VRLA Containers

Overview

NPP Power Lithium-Iron Phosphate batteries offer superb improvement in characteristics compared to lead-acid technology. Due to the extreme cycle and calendar life, LiFePO₄ batteries are an excellent long-term investment for your applications. Powerful, lightweight, safe, and smart, the Lithium-Iron Phosphate batteries are the future of the energy storage you can have right now.

Characteristics

- Capacity range: 5Ah to 400Ah
- Design life: > 15 years (depending on cycles)
- Cycle life:
 - 30% DOD: 12000 cycles
 - 50% DOD: 6000 cycles
 - 80% DOD: 4500 cycles
 - 100% DOD: 3000 cycles
- Available in: 3V; 6V; 12V; 24V; 48V in VRLA type containers
- Self-discharge per month: ≤ 3% at 25°C
- Operation temperature range: 0°C to + 45°C
- Recommended operation temperature: 25°C

Design Features

- Longer cycle life – Up to 15 times longer cycle life and 5 times longer float/calendar life than lead-acid batteries.
- More capacity – Provides up to 100% of usable energy.
- Lightweight – 60% lighter than lead-acid batteries.
- High discharge rate – Ability to fully discharge the battery at a high rate of discharge.
- Fast charging – Charges much faster than conventional sealed lead-acid batteries.
- Long cycle life – More than 3000 cycles at 100% depth of discharge.
- Intelligent BMS – The battery management system monitors and adapts to battery conditions to maximize performance and safety.

Applications

- Solar & Wind Energy Storage
- UPS
- Data Centers
- Telecommunication
- Electric Power systems
- Electric vehicles
- Emergency Light
- All-purpose

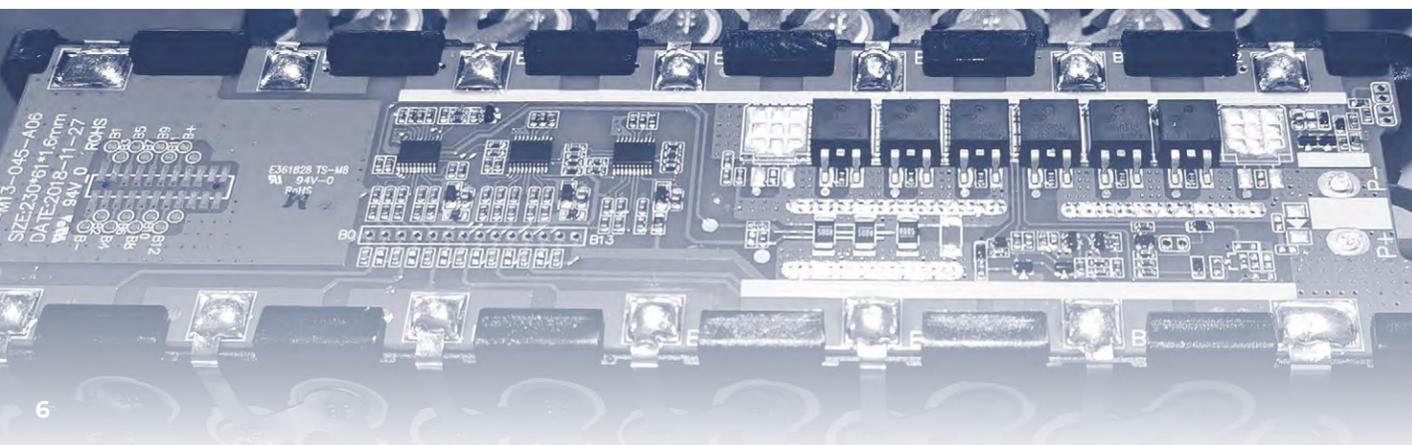
Certifications



Compliant to: IEC 62133-2

LFP Series

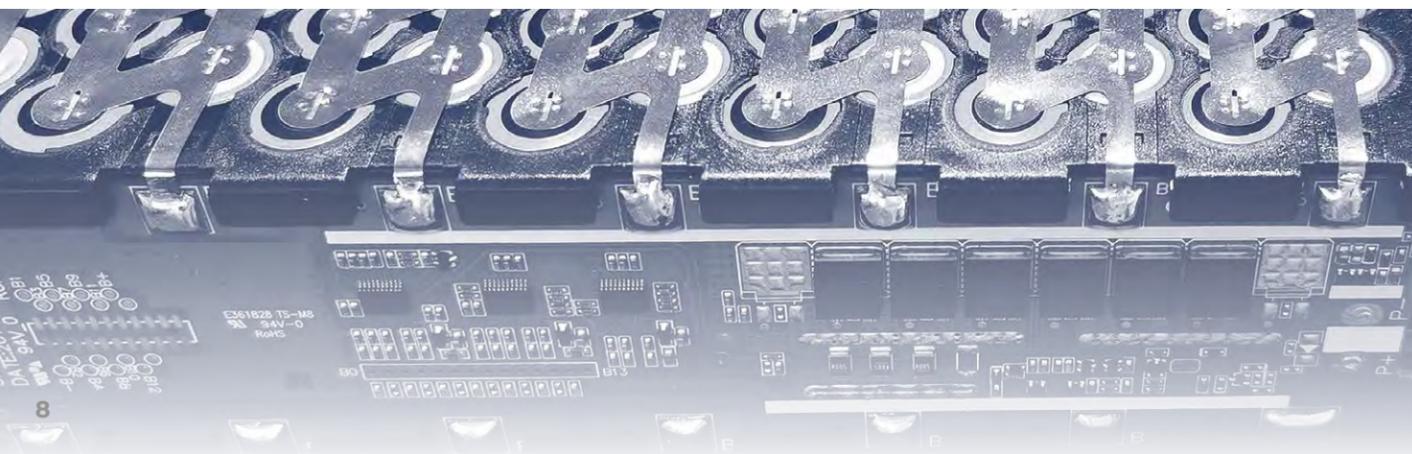
Battery Model	Rated Voltage	Rated Capacity	Discharge Current	Peak Discharge Current	Cut off Discharge Voltage	Charge Voltage	Charge Current	Weight	Dimension LxWxH [mm]
LFP3.2-6	3,2V	6Ah	10A	18A	2.8V	3.65V	1.2A	0,31 kg	47x47x101
LFP6.4-6	6,4V	6Ah	10A	18A	5.6V	7.3V	1.2A	0,45 kg	70x47x96
LFP6.4-12	6,4V	12Ah	20A	36A	5.6V	7.3V	2.4A	0,85 kg	151x50x93
LFPI2.8-6	12,8V	6Ah	10A	18A	11.2V	14.6V	1.2A	0,8 kg	151x65x97
LFPI2.8-12	12,8V	12Ah	20A	36A	11.2V	14.6V	2.4A	1,35 kg	151x65x97
LFPI2.8-18	12,8V	18Ah	20A	54A	11.2V	14.6V	3.6A	2,09 kg	151x99x99
LFPI2.8-24	12,8V	24Ah	30A	72A	11.2V	14.6V	4.8A	2,9 kg	181x77x168
LFPI2.8-30	12,8V	30Ah	30A	90A	11.2V	14.6V	6A	3,46 kg	181x77x168
LFPI2.8-40	12,8V	40Ah	80A	120A	11.2V	14.6V	8A	5,9 kg	198x166x170
LFPI2.8-50	12,8V	50Ah	100A	150A	11.2V	14.6V	10A	7,6 kg	198x166x170
LFPI2.8-60	12,8V	60Ah	120A	180A	11.2V	14.6V	12A	7,6 kg	198x166x170
LFPI2.8-65	12,8V	65Ah	120A	195A	11.2V	14.6V	13A	7,6 kg	198x166x170
LFPI2.8-70	12,8V	70Ah	150A	210A	11.2V	14.6V	14A	9 kg	229x138x208
LFPI2.8-80	12,8V	80Ah	150A	240A	11.2V	14.6V	16A	10 kg	260x168x209
LFPI2.8-90	12,8V	90Ah	150A	270A	11.2V	14.6V	18A	10,6 kg	260x168x209
LFPI2.8-100	12,8V	100Ah	200A	300A	11.2V	14.6V	20A	12,5 kg	330x172x215
LFPI2.8-120	12,8V	120Ah	200A	360A	11.2V	14.6V	24A	14,3 kg	330x172x215
LFPI2.8-135	12,8V	135Ah	200A	405A	11.2V	14.6V	27A	15 kg	330x172x215
LFPI2.8-150	12,8V	150Ah	200A	450A	11.2V	14.6V	30A	16 kg	330x172x215
LFPI2.8-160	12,8V	160Ah	200A	480A	11.2V	14.6V	32A	18,4 kg	330x172x215





LFP Series

Battery Model	Rated Voltage	Rated Capacity	Discharge Current	Peak Discharge Current	Cut off Discharge Voltage	Charge Voltage	Charge Current	Weight	Dimension LxWxH [mm]
LFP12.8-200	12,8V	200Ah	200A	600A	11.2V	14.6V	40A	21,5 kg	522x240x218
LFP12.8-250	12,8V	250Ah	200A	600A	11.2V	14.6V	50A	28 kg	522x240x218
LFP12.8-300	12,8V	300Ah	200A	600A	11.2V	14.6V	60A	34,7 kg	522x240x218
LFP12.8-400	12,8V	400Ah	200A	600A	11.2V	14.6V	80A	37,5 kg	522x240x218



LFP Series

Battery Model	Rated Voltage	Rated Capacity	Discharge Current	Peak Discharge Current	Cut off Discharge Voltage	Charge Voltage	Charge Current	Weight	Dimension (LxWxH) mm
LFP25.6-6	25.6V	6Ah	10A	18A	22.4V	29.2V	1.2A	1,6 kg	181x77x168
LFP25.6-12	25.6V	12Ah	20A	36A	22.4V	29.2V	2.4A	2,9 kg	181x77x168
LFP25.6-18	25.6V	18Ah	30A	54A	22.4V	29.2V	3.6A	5,6 kg	198x166x170
LFP25.6-24	25.6V	24Ah	30A	72A	22.4V	29.2V	4.8A	5,6 kg	198x166x170
LFP25.6-30	25.6V	30Ah	60A	90A	22.4V	29.2V	6A	7,1 kg	198x166x170
LFP25.6-35	25.6V	35Ah	60A	105A	22.4V	29.2V	7.0A	9,45 kg	229x138x208
LFP25.6-40	25.6V	40Ah	40A	120A	22.4V	29.2V	8.0A	9,8 kg	229x138x208
LFP25.6-50	25.6V	50Ah	100A	150A	22.4V	29.2V	10A	11,9 kg	330x172x215
LFP25.6-60	25.6V	60Ah	100A	180A	22.4V	29.2V	12A	14,3 kg	330x172x215
LFP25.6-70	25.6V	70Ah	100A	210A	22.4V	29.2V	14A	16,7 kg	330x172x215
LFP25.6-75	25.6V	75Ah	100A	234A	22.4V	29.2V	15.0A	17,9 kg	330x172x215
LFP25.6-100	25.6V	100Ah	200A	300A	22.4V	29.2V	20A	21,5 kg	483x170x240
LFP25.6-120	25.6V	120Ah	200A	360A	22.4V	29.2V	24A	27,1 kg	483x170x240
LFP25.6-150	25.6V	150Ah	200A	450A	22.4V	29.2V	30A	36,4 kg	522x240x218
LFP25.6-200	25.6V	200Ah	200A	600A	22.4V	29.2V	40A	42 kg	522x240x218
LFP51.2-12	51.2V	12Ah	20A	36A	44.8V	58.4V	2.4A	5,8 kg	198x166x170
LFP51.2-18	51.2V	18Ah	30A	54A	44.8V	58.4V	3.6A	10,3 kg	330x172x215
LFP51.2-24	51.2V	24Ah	30A	72A	44.8V	58.4V	4.8A	12,7 kg	330x172x215
LFP51.2-30	51.2V	30Ah	60A	90A	44.8V	58.4V	6A	15,1 kg	330x172x215
LFP51.2-35	51.2V	35Ah	50A	105A	44.8V	58.4V	7.0A	17,5 kg	483x170x240
LFP51.2-40	51.2V	40Ah	100A	120A	44.8V	58.4V	8A	24,4 kg	483x170x240
LFP51.2-45	51.2V	45Ah	100A	135A	44.8V	58.4V	9A	24,4 kg	483x170x240
LFP51.2-50	51.2V	50Ah	100A	150A	44.8V	58.4V	10A	28,8 kg	483x170x240
LFP51.2-60	51.2V	60Ah	120A	180A	44.8V	58.4V	12A	29,2 kg	483x170x240
LFP51.2-70	51.2V	70Ah	150A	210A	44.8V	58.4V	14A	34 kg	483x170x240
LFP51.2-80	51.2V	80Ah	150A	240A	44.8V	58.4V	16A	40,4 kg	522x240x218
LFP51.2-100	51.2V	100Ah	200A	300A	44.8V	58.4V	20A	42 kg	522x240x218

LFR Series

LiFePO₄ Technology for Storage Power

Applications

- Solar & Wind Energy Storage
- UPS, High-power UPS
- Data Centres
- Telecommunication
- Electric Power systems
- All-purpose

Characteristics

- LiFePO₄ chemistry
- Capacity range: 12Ah to 300Ah
- Voltage range: 12.8V – 51.2V
- Design life: > 15 years, (depending on cycles)
- Cycle life: Up to 3000 Cycles at 100% DOD, 80%EOL, 25°C
- Cell types: Cylindrical / Prismatic
- Parallel connection availability
- Communication interface: RS485/RS232, SNMP
- Self-discharge per month: ≤ 3% at 25°C
- Operation temperature range: – 0°C to + 45°C
- Recommended operation temperature: 25°C
- Safety protection: overvoltage, overcurrent, overcharge, overdischarge, undervoltage, temperature, etc.

BMS

- Software control unit for every individual cell
- Independence of charge/discharge control and protection to maximize system availability.
- Information for voltage, current, temperature, SOH and SOC real time detection.
- LED Screen monitor

Design Features

- Longer cycle life – Up to 15 times longer cycle life and 5 times longer float/calendar life than lead-acid batteries.
- More capacity – Provides up to 100% of usable energy.
- Lightweight – 60% lighter than lead-acid batteries.
- High discharge rate – Ability to fully discharge the battery at a high rate of discharge.
- Fast charging – Charges much faster than conventional sealed lead-acid batteries.
- Long cycle life – Up to 3000 cycles at 100% depth of discharge.
- Intelligent BMS – The battery management system monitors and adapts to battery conditions to maximize performance and safety.



Certifications



Compliant to: IEC 62133-2

LFR Series - Storage Power

Battery Model	Rated Voltage	Rated Capacity	Discharge Current	Peak Discharge Current	Cut off Discharge Voltage	Charge Voltage	Charge Current	Weight	Dimension [LxWxH] mm	Height*
LFR25.6-50	25,6V	50Ah	100A	150A	22,4V	29,2V	10A	23,3 kg	442x480x178	4U
LFR25.6-100	25,6V	100Ah	100A	300A	22,4V	29,2V	20A	26,9 kg	442x480x178	4U
LFR25.6-150	25,6V	150Ah	100A	300A	22,4V	29,2V	30A	39,2 kg	442x480x222	5U
LFR25.6-200	25,6V	200Ah	100A	300A	22,4V	29,2V	40A	46,3 kg	442x480x222	5U
LFR25.6-300	25,6V	300Ah	100A	300A	22,4V	29,2V	60A	68,2 kg	442x480x311	7U
LFR25.6-400	25,6V	400Ah	100A	300A	22,4V	29,2V	80A	88,6 kg	442x480x311	7U
LFR25.6-500	25,6V	500Ah	100A	300A	22,4V	29,2V	100A	111,5 kg	442x650x311	7U
LFR25.6-600	25,6V	600Ah	100A	300A	22,4V	29,2V	100A	125,5 kg	442x650x311	7U
LFR38.4-50	38,4V	50Ah	100A	150A	33,6V	43,8V	10A	24,2 kg	442x480x178	4U
LFR38.4-100	38,4V	100Ah	100A	300A	33,6V	43,8V	20A	35,6 kg	442x480x178	4U
LFR38.4-150	38,4V	150Ah	100A	300A	33,6V	43,8V	30A	54,8 kg	442x480x178	4U
LFR38.4-200	38,4V	200Ah	100A	300A	33,6V	43,8V	40A	68,2 kg	442x480x311	7U
LFR38.4-300	38,4V	300Ah	100A	300A	33,6V	43,8V	60A	97,8 kg	442x480x311	7U
LFR51.2-35	51,2V	35Ah	100A	105A	44,8V	58,4V	7A	22,9 kg	442x480x178	7U
LFR51.2-50	51,2V	50Ah	100A	150A	44,8V	58,4V	10A	28,7 kg	442x480x178	4U
LFR51.2-100	51,2V	100Ah	100A	300A	44,8V	58,4V	20A	46 kg	442x480x222	5U
LFR51.2-150	51,2V	150Ah	100A	300A	44,8V	58,4V	30A	73,5 kg	442x480x311	7U
LFR51.2-200	51,2V	200Ah	100A	300A	44,8V	58,4V	40A	85 kg	442x480x311	7U
LFR51.2-250	51,2V	250Ah	100A	300A	44,8V	58,4V	50A	115 kg	442x650x311	7U
LFR51.2-300	51,2V	300Ah	100A	300A	44,8V	58,4V	60A	125,5 kg	442x650x311	7U

*Rack Unit: 1U = 44.45 mm (EC 60297-3-108:2014)





LFR Series - Storage Power

Battery Model	Rated Voltage	Rated Capacity	Discharge Current	Peak Discharge Current	Cut off Discharge Voltage	Charge Voltage	Charge Current	Weight	Dimension [LxWxH] mm	Height*
LFR12.8-50 C20	12,8V	50Ah	20A	60A	10.8V	14.6V	10A	10 kg	442x421x44.5	1U
LFR12.8-50 C30	12,8V	50Ah	30A	90A	10.8V	14.6V	10A	10 kg	442x421x44.5	1U
LFR12.8-50 C60	12,8V	50Ah	60A	150A	10.8V	14.6V	10A	10 kg	442x421x44.5	1U
LFR12.8-50 C120	12,8V	50Ah	120A	150A	10.8V	14.6V	10A	10 kg	442x421x44.5	1U
LFR12.8-100 C20	12,8V	100Ah	20A	80A	10.8V	14.6V	20A	17 kg	442x421x89	2U
LFR12.8-100 C30	12,8V	100Ah	30A	100A	10.8V	14.6V	20A	17 kg	442x421x89	2U
LFR12.8-100 C60	12,8V	100Ah	60A	180A	10.8V	14.6V	20A	17 kg	442x421x89	2U
LFR12.8-100 C120	12,8V	100Ah	120A	250A	10.8V	14.6V	20A	17 kg	442x421x89	2U
LFR12.8-100 C200	12,8V	100Ah	200A	300A	10.8V	14.6V	20A	17 kg	442x421x89	2U
LFR12.8-150 C20	12,8V	150Ah	20A	80A	10.8V	14.6V	30A	23 kg	442x421x133	3U
LFR12.8-150 C30	12,8V	150Ah	30A	100A	10.8V	14.6V	30A	23 kg	442x421x133	3U
LFR12.8-150 C60	12,8V	150Ah	60A	180A	10.8V	14.6V	30A	23 kg	442x421x133	3U
LFR12.8-150 C120	12,8V	150Ah	120A	250A	10.8V	14.6V	30A	23 kg	442x421x133	3U
LFR12.8-150 C200	12,8V	150Ah	200A	350A	10.8V	14.6V	30A	23 kg	442x421x133	3U
LFR12.8-200 C20	12,8V	200Ah	20A	80A	10.8V	14.6V	40A	27 kg	442x421x178	4U
LFR12.8-200 C30	12,8V	200Ah	30A	100A	10.8V	14.6V	40A	27 kg	442x421x178	4U
LFR12.8-200 C60	12,8V	200Ah	60A	180A	10.8V	14.6V	40A	27 kg	442x421x178	4U
LFR12.8-200 C120	12,8V	200Ah	120A	250A	10.8V	14.6V	40A	27 kg	442x421x178	4U
LFR12.8-200 C200	12,8V	200Ah	200A	350A	10.8V	14.6V	40A	27 kg	442x421x178	4U

LFR Series - Storage Power

Battery Model	Rated Voltage	Rated Capacity	Discharge Current	Peak Discharge Current	Cut off Discharge Voltage	Charge Voltage	Charge Current	Weight	Dimension LxWxH [mm]	Height*
LFR25.6-50 C30	25,6V	50Ah	30A	90A	21.6V	29.2V	10A	14 kg	442x421x89	2U
LFR25.6-50 C50	25,6V	50Ah	50A	150A	21.6V	29.2V	10A	14 kg	442x421x89	2U
LFR25.6-50 C80	25,6V	50Ah	80A	150A	21.6V	29.2V	10A	14 kg	442x421x89	2U
LFR25.6-50 C100	25,6V	50Ah	100A	150A	21.6V	29.2V	10A	14 kg	442x421x89	2U
LFR25.6-50 C150	25,6V	50Ah	150A	150A	21.6V	29.2V	10A	14 kg	442x421x89	2U
LFR25.6-100 C30	25,6V	100Ah	30A	90A	21.6V	29.2V	20A	26 kg	442x421x133	3U
LFR25.6-100 C50	25,6V	100Ah	50A	150A	21.6V	29.2V	20A	26 kg	442x421x133	3U
LFR25.6-100 C80	25,6V	100Ah	80A	200A	21.6V	29.2V	20A	26 kg	442x421x133	3U
LFR25.6-100 C100	25,6V	100Ah	100A	300A	21.6V	29.2V	20A	26 kg	442x421x133	3U
LFR25.6-100 C150	25,6V	100Ah	150A	350A	21.6V	29.2V	20A	26 kg	442x421x133	3U
LFR25.6-100 C200	25,6V	100Ah	200A	450A	21.6V	29.2V	20A	26 kg	442x421x133	3U
LFR25.6-150 C30	25,6V	150Ah	30A	90A	21.6V	29.2V	30A	30 kg	442x421x178	4U
LFR25.6-150 C50	25,6V	150Ah	50A	150A	21.6V	29.2V	30A	30 kg	442x421x178	4U
LFR25.6-150 C80	25,6V	150Ah	80A	200A	21.6V	29.2V	30A	30 kg	442x421x178	4U
LFR25.6-150 C100	25,6V	150Ah	100A	300A	21.6V	29.2V	30A	30 kg	442x421x178	4U
LFR25.6-150 C150	25,6V	150Ah	150A	350A	21.6V	29.2V	30A	30 kg	442x421x178	4U
LFR25.6-150 C200	25,6V	150Ah	200A	450A	21.6V	29.2V	30A	30 kg	442x421x178	4U
LFR25.6-200 C30	25,6V	200Ah	30A	90A	21.6V	29.2V	40A	41 kg	442x421x133	3U
LFR25.6-200 C50	25,6V	200Ah	50A	150A	21.6V	29.2V	40A	41 kg	442x421x133	3U
LFR25.6-200 C80	25,6V	200Ah	80A	200A	21.6V	29.2V	40A	41 kg	442x421x133	3U
LFR25.6-200 C100	25,6V	200Ah	100A	300A	21.6V	29.2V	40A	41 kg	442x421x133	3U
LFR25.6-200 C150	25,6V	200Ah	150A	350A	21.6V	29.2V	40A	41 kg	442x421x133	3U
LFR25.6-200 C200	25,6V	200Ah	200A	450A	21.6V	29.2V	40A	41 kg	442x421x133	3U

*Rack Unit: 1U = 44.45 mm (EC 60297-3-108:2014)



LFR Series - Storage Power

Battery Model	Rated Voltage	Rated Capacity	Discharge Current	Peak Discharge Current	Cut off Discharge Voltage	Charge Voltage	Charge Current	Weight	Dimension LxWxH [mm]	Height*
LFR38.4-24 C30	38,4V	24Ah	30A	72A	32.4V	43.8V	4.8A	13kg	442x421x89	2U
LFR38.4-24 C50	38,4V	24Ah	50A	72A	32.4V	43.8V	4.8A	13kg	442x421x89	2U
LFR38.4-30 C30	38,4V	30Ah	30A	90A	32.4V	43.8V	6A	14kg	442x421x89	2U
LFR38.4-30 C50	38,4V	30Ah	50A	90A	32.4V	43.8V	6A	14kg	442x421x89	2U
LFR38.4-40 C30	38,4V	40Ah	30A	90A	32.4V	43.8V	8A	17.5kg	442x421x133	3U
LFR38.4-40 C50	38,4V	40Ah	50A	120A	32.4V	43.8V	8A	17.5kg	442x421x133	3U
LFR38.4-40 C80	38,4V	40Ah	80A	120A	32.4V	43.8V	8A	17.5kg	442x421x133	3U
LFR38.4-50 C30	38,4V	50Ah	30A	90A	32.4V	43.8V	10A	21kg	442x421x133	3U
LFR38.4-50 C50	38,4V	50Ah	50A	150A	32.4V	43.8V	10A	21kg	442x421x133	3U
LFR38.4-50 C80	38,4V	50Ah	80A	150A	32.4V	43.8V	10A	21kg	442x421x133	3U
LFR48-50 C30	48V	50Ah	30A	90A	40.5V	54.6V	10A	25kg	442x421x133	3U
LFR48-50 C50	48V	50Ah	50A	150A	40.5V	54.6V	10A	25kg	442x421x133	3U
LFR48-50 C80	48V	50Ah	80A	150A	40.5V	54.6V	10A	25kg	442x421x133	3U

LFR Series - Storage Power

Battery Model	Rated Voltage	Rated Capacity	Discharge Current	Peak Discharge Current	Cut off Discharge Voltage	Charge Voltage	Charge Current	Weight	Dimension LxWxH [mm]	Height*
LFR48-100 C50	48V	100Ah	50A	150A	40.5V	54.6V	20A	52 kg	442x421x222	5U
LFR48-100 C80	48V	100Ah	80A	240A	40.5V	54.6V	20A	52 kg	442x421x222	5U
LFR48-100 C120	48V	100Ah	120A	300A	40.5V	54.6V	20A	52 kg	442x421x222	5U
LFR48-100 C200	48V	100Ah	200A	450A	40.5V	54.6V	20A	52 kg	442x421x222	5U
LFR48-150 C50	48V	150Ah	50A	150A	40.5V	54.6V	30A	65 kg	442x421x311	7U
LFR48-150 C80	48V	150Ah	80A	240A	40.5V	54.6V	30A	65 kg	442x421x311	7U
LFR48-150 C120	48V	150Ah	120A	300A	40.5V	54.6V	30A	65 kg	442x421x311	7U
LFR48-150 C200	48V	150Ah	200A	450A	40.5V	54.6V	30A	65 kg	442x421x311	7U
LFR48-200 C50	48V	200Ah	50A	150A	40.5V	54.6V	40A	65 kg	442x421x311	7U
LFR48-200 C80	48V	200Ah	80A	240A	40.5V	54.6V	40A	65 kg	442x421x311	7U
LFR48-200 C120	48V	200Ah	120A	300A	40.5V	54.6V	40A	65 kg	442x421x311	7U
LFR48-200 C200	48V	200Ah	200A	450A	40.5V	54.6V	40A	65 kg	442x421x311	7U
LFR48-300 C50	48V	300Ah	50A	150A	40.5V	54.6V	60A	95 kg	442x421x311	7U
LFR48-300 C80	48V	300Ah	80A	240A	40.5V	54.6V	60A	95 kg	442x421x311	7U
LFR48-300 C120	48V	300Ah	120A	300A	40.5V	54.6V	60A	95 kg	442x421x311	7U
LFR48-300 C200	48V	300Ah	200A	450A	40.5V	54.6V	60A	95 kg	442x421x311	7U

*Rack Unit: 1U = 44.45 mm (EC 60297-3-108:2014)





LFR Series

LiFePO₄ Technology for Telecom – Base Station

Applications

- Base Stations
- Telecommunications
- Solar & Wind Energy Storage
- UPS
- Data Centers
- Electric Power systems
- All-purpose

Characteristics

- LiFePO₄ chemistry
- Capacity range: 36Ah to 300Ah
- Voltage range: 51.2V
- Design life: > 15 years, (depending on cycles)
- Cycle life: Up to 3000 Cycles at 100% DOD
- Cell types: Cylindrical / Prismatic
- Parallel connection availability
- Communication interface: RS485/RS232, SNMP
- Self-discharge per month: ≤ 3% at 25°C
- Operation temperature range: - 0°C to + 45°C
- Recommended operation temperature: 25°C
- Safety protection: overvoltage, overcurrent, over-charge, overdischarge, undervoltage, temperature, etc.

BMS

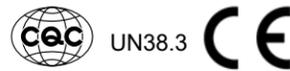
- Software control unit for every individual cell
- Independence of charge/discharge control and protection to maximize system availability.
- Information for voltage, current, temperature, SOH and SOC real time detection.
- LED Screen monitor

Design Features

- Longer cycle life – Up to 15 times longer cycle life and 5 times longer float/calendar life than lead-acid batteries.
- More capacity – Provides up to 100% of usable energy.
- Lightweight – 60% lighter than lead-acid batteries.
- High discharge rate – Ability to fully discharge the battery at a high rate of discharge.
- Fast charging – Charges much faster than conventional sealed lead-acid batteries.
- Long cycle life – Up to 3000 cycles at 100% depth of discharge.
- Intelligent BMS – The battery management system monitors and adapts to battery conditions to maximize performance and safety.



Certifications



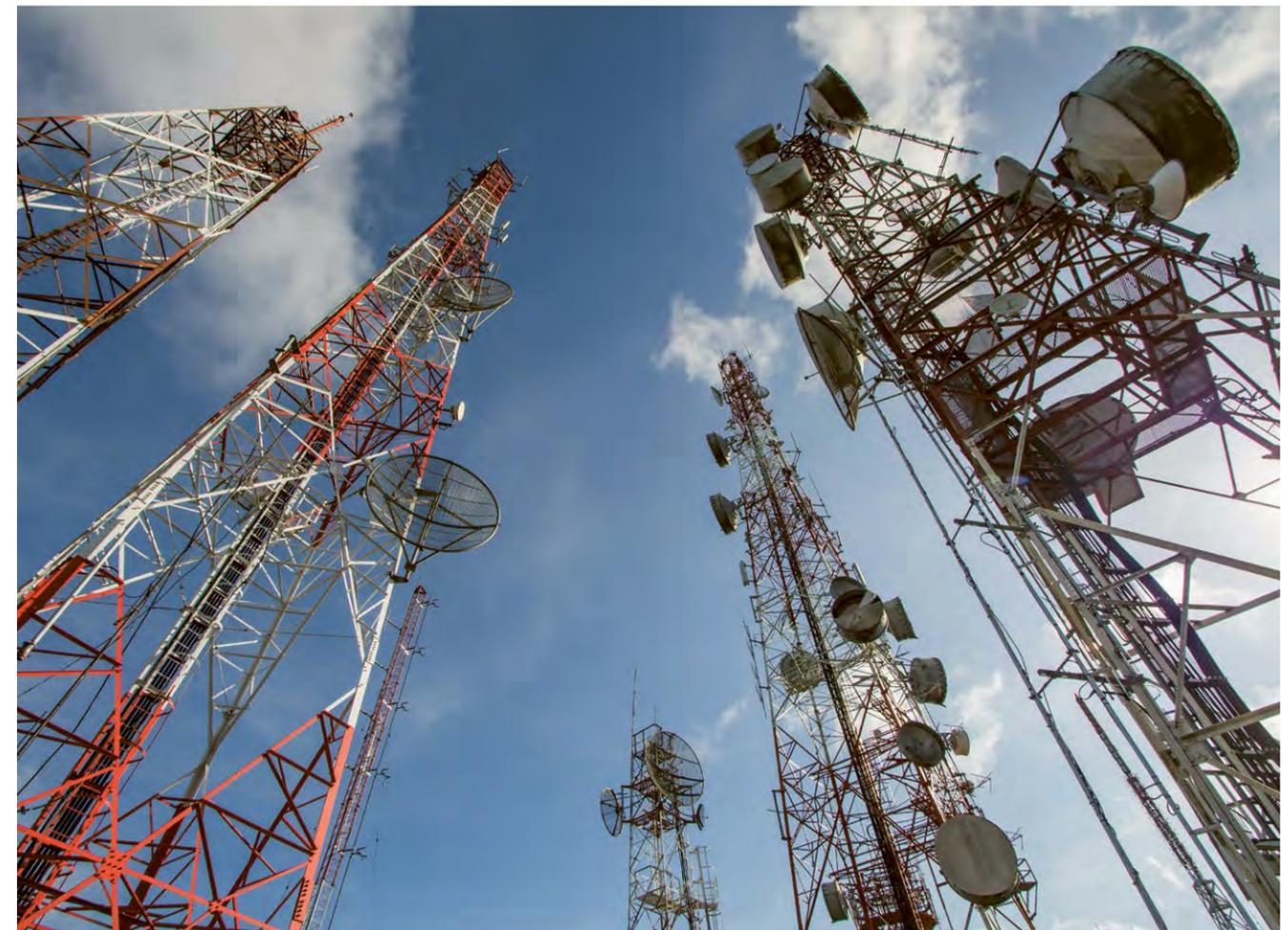
Compliant to: IEC 62133-2



LFR Series - Telecom - Base Station

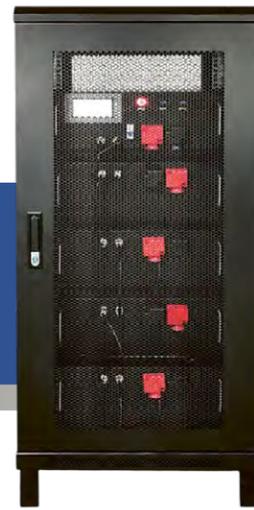
Battery Model	Rated Voltage	Rated Capacity	Discharge Current	Peak Discharge Current	Cut off Discharge Voltage	Charge Voltage	Charge Current	Weight	Dimension LxWxH [mm]	Height*
LFR51.2-35	51,2V	35Ah	100A	108A	44,8	58,4	7	22,9 kg	442x480x178	4U
LFR51.2-50	51,2V	50Ah	100A	150A	44,8	58,4	10	28,7 kg	442x480x178	4U
LFR51.2-100	51,2V	100Ah	100A	300A	44,8	58,4	20	46 kg	442x480x222	5U
LFR51.2-150	51,2V	150Ah	100A	300A	44,8	58,4	30	73,5 kg	442x480x311	7U
LFR51.2-200	51,2V	200Ah	100A	300A	44,8	58,4	40	85 kg	442x480x311	7U
LFR51.2-250	51,2V	250Ah	100A	300A	44,8	58,4	50	115 kg	442x650x311	7U
LFR51.2-300	51,2V	300Ah	100A	300A	44,8	58,4	60	125,5 kg	442x650x311	7U

*Rack Unit: 1U = 44.45 mm (EC 60297-3-108:2014)



LFR Series

LiFePO₄ Technology – Cabinet power



Applications

- High-power UPS
- Inverter devices
- Solar & Wind Energy Storage
- Telecommunications
- Rail and Transportation
- Data Centers
- Electric Power systems

Design Features

- Longer cycle life – Up to 15 times longer cycle life and 5 times longer float/calendar life than lead-acid batteries.
- More capacity – Provides up to 100% of usable energy.
- Lightweight – 60% lighter than lead-acid batteries.
- High discharge rate – Ability to fully discharge the battery at a high rate of discharge.
- Fast charging – Charges much faster than conventional sealed lead-acid batteries.
- Long cycle life – Up to 3000 cycles at 100% depth of discharge.
- Intelligent BMS – The battery management system monitors and adapts to battery conditions to maximize performance and safety.

Characteristics

- LiFePO₄ chemistry
- DC enclosures/cabinets
- Capacity range: 18Ah to 600Ah
- Voltage range 48V – 384V (408V-512V)
- Design life: > 15 years, (depending on cycles)
- Cycle life: Up to 3000 Cycles at 100% DOD
- Cell types: Cylindrical / Prismatic
- Parallel connection availability
- Communication interface: RS485/RS232, SNMP
- Self-discharge per month: ≤ 3% at 25°C
- Operation temperature range: – 0°C to + 45°C
- Recommended operation temperature: 25°C
- Safety protection: overvoltage, overcurrent, overcharge, overdischarge, undervoltage, temperature, etc.

Certifications



Compliant to: IEC 62133-2



BMS

- Software control unit for every individual cell
- Independence of charge/discharge control and protection to maximize system availability.
- Information for voltage, current, temperature, SOH and SOC real time detection.
- LED Screen monitor
- Mobile App and remote-control options, multi-language, customizable.

LFR Series - Cabinet Power

Battery Model	Rated Voltage	Rated Capacity	Discharge Current	Peak Discharge Current	Cut off Discharge Voltage	Charge Voltage	Charge Current	Pack Qty [pcs]	Weight	Dimension LxWxH [mm]
LFR96-50	96V	50Ah	100A	150A	84V	110V	10A	2	218 kg	600x600x1200
LFR96-100	96V	100Ah	200A	300A	84V	110V	20A	2	218 kg	600x600x1200
LFR96-150	96V	150Ah	200A	450A	84V	110V	30A	2	218 kg	600x600x1200
LFR96-200	96V	200Ah	200A	600A	84V	110V	40A	2	218 kg	600x600x1200
LFR96-250	96V	250Ah	200A	600A	84V	110V	50A	2	276 kg	600x800x1200
LFR96-300	96V	300Ah	200A	600A	84V	110V	60A	2	303 kg	600x800x1200
LFR96-400	96V	400Ah	200A	600A	84V	110V	80A	2	381 kg	600x800x1500
LFR96-500	96V	500Ah	200A	600A	84V	110V	100A	2	450 kg	600x800x1500
LFR192-18	192V	18Ah	30A	54A	168V	219V	3,6A	4	97 kg	600x600x1200
LFR192-24	192V	24Ah	30A	72A	168V	219V	4,8A	4	107 kg	600x600x1200
LFR192-30	192V	30Ah	60A	90A	168V	219V	6A	4	112 kg	600x600x1200
LFR192-40	192V	40Ah	80A	120A	168V	219V	8A	4	145 kg	600x600x1200
LFR192-50	192V	50Ah	100A	150A	168V	219V	10A	4	158 kg	600x600x1200
LFR192-100	192V	100Ah	200A	300A	168V	219V	20A	4	248 kg	600x600x1500
LFR192-150	192V	150Ah	200A	450A	168V	219V	30A	4	344 kg	600x600x1500
LFR192-200	192V	200Ah	200A	600A	168V	219V	40A	4	386 kg	600x600x1500
LFR192-250	192V	250Ah	200A	600A	168V	219V	50A	4	500 kg	600x800x1500
LFR192-300	192V	300Ah	200A	600A	168V	219V	60A	4	519 kg	600x800x1500
LFR192-400	192V	400Ah	200A	600A	168V	219V	80A	4	662 kg	800x800x1500
LFR240-18	240V	18Ah	36A	54A	210V	274V	3,6A	5	45 kg	600x600x1200
LFR240-24	240V	24Ah	48A	72A	210V	274V	4,8A	5	56 kg	600x600x1200
LFR240-30	240V	30Ah	60A	90A	210V	274V	6A	5	71 kg	600x600x1200
LFR240-40	240V	40Ah	80A	120A	210V	274V	8A	5	149 kg	600x600x1200
LFR240-50	240V	50Ah	100A	150A	210V	274V	10A	5	158 kg	600x600x1200
LFR240-100	240V	100Ah	200A	300A	210V	274V	20A	5	268 kg	600x600x1200
LFR240-150	240V	150Ah	200A	450A	210V	274V	30A	5	430 kg	600x800x1500
LFR240-200	240V	200Ah	200A	600A	210V	274V	40A	5	505 kg	600x600x1800
LFR240-250	240V	250Ah	200A	600A	210V	274V	50A	5	650 kg	600x600x1800
LFR240-300	240V	300Ah	200A	600A	210V	274V	60A	5	778 kg	600x800x1800
LFR240-400	240V	400Ah	200A	600A	210V	274V	80A	5	980 kg	1200x600x1600
LFR384-24	384V	24Ah	48A	60A	336V	438V	4A	8	128 kg	600x600x1200
LFR384-30	384V	30Ah	60A	90A	336V	438V	6A	8	156 kg	600x600x1200
LFR384-50	384V	50Ah	100A	150A	336V	438V	10A	8	238 kg	600x600x1200
LFR384-100	384V	100Ah	200A	300A	336V	438V	20A	8	566 kg	600x600x1500x2
LFR384-150	384V	150Ah	200A	450A	336V	438V	30A	8	686 kg	600x800x1800
LFR384-200	384V	200Ah	200A	600A	336V	438V	40A	8	792 kg	600x600x1500x2
LFR384-300	384V	300Ah	200A	600A	336V	438V	60A	8	1118 kg	1200x600x1600
LFR384-400	384V	400Ah	200A	600A	336V	438V	80A	8	1395 kg	1200x600x1600
LFR384-500	384V	500Ah	200A	600A	336V	438V	100A	8	1680 kg	1200x600x1800
LFR384-600	384V	600Ah	200A	600A	336V	438V	120A	8	2006 kg	1200x800x1800





LFC Series

LiFePO₄ Technology – E-Vehicles

Applications

- Electrically Propelled Vehicles
- Energy Storage

Characteristics

- LiFePO₄ chemistry
- Capacity range: 12Ah to 70Ah
- Voltage range 48V – 76.8V
- Design life: > 15 years, (depending on cycles)
- Cycle life: Up to 3000 Cycles at 100% DOD
- Cell types: Cylindrical / Prismatic
- Parallel connection availability
- Communication interface: RS485/RS232, SNMP
- Self-discharge per month: ≤ 3% at 25°C
- Operation temperature range: – 0°C to + 45°C
- Recommended operation temperature: 25°C
- Safety protection: overvoltage, overcurrent, overcharge, overdischarge, undervoltage, temperature, etc.

BMS

- Software control unit for every individual cell
- Independence of charge/discharge control and protection to maximize system availability.
- Information for voltage, current, temperature, SOH and SOC real time detection.
- LED Screen monitor (some models)

Design Features

- Longer cycle life: Up to 15 times longer cycle life and 5 times longer float/calendar life than lead-acid batteries.
- More capacity – Provides up to 100% of usable energy.
- Lightweight – 60% lighter than lead-acid batteries.
- High discharge rate – Ability to fully discharge the battery at a high rate of discharge.
- Fast charging – Charges much faster than conventional sealed lead-acid batteries.
- Long cycle life – Up to 3000 cycles at 100% depth of discharge.
- Intelligent BMS – The battery management system monitors and adapts to battery conditions to maximize performance and safety.



Certifications



Compliant to: IEC 62133-2

LFC Series - E-Vehicles

Battery Model	Rated Voltage	Rated Capacity	Discharge Current	Peak Discharge Current	Cut off Discharge Voltage	Charge Voltage	Charge Current	Weight	Dimension LxWxH [mm]
LFC48-24 C20	48V	24Ah	20A	60A	42V	54,7V	4,8A	11,5 kg	215x183x165
LFC48-24 C30	48V	24Ah	30A	60A	42V	54,7V	4,8A	11,5 kg	215x183x165
LFC48-24 C45	48V	24Ah	45A	60A	42V	54,7V	4,8A	11,5 kg	215x183x165
LFC48-30 C45	48V	30Ah	45A	90A	42V	54,7V	6A	14,0 kg	280x183x165
LFC48-40 C60	48V	40Ah	60A	120A	42V	54,7V	8A	19,0 kg	270x235x175
LFC48-50 C60	48V	50Ah	60A	150A	42V	54,7V	10A	23,8 kg	300x235x175
LFC48-60 C60	48V	60Ah	60A	180A	42V	54,7V	12A	26,0 kg	370x235x175
LFC60.8-24 C30	60,8V	24Ah	30A	60A	53V	69V	4,8A	14,5 kg	310x183x165
LFC60.8-24 C60	60,8V	24Ah	60A	60A	53V	69V	4,8A	14,5 kg	310x183x165
LFC60.8-30 C30	60,8V	30Ah	30A	90A	53V	69V	6A	17,5 kg	350x183x165
LFC60.8-30 C60	60,8V	30Ah	60A	90A	53V	69V	6A	17,5 kg	350x183x165
LFC60.8-40 C60	60,8V	40Ah	60A	120A	53V	69V	8A	24,0 kg	310x205x240
LFC60.8-50 C60	60,8V	50Ah	60A	150A	53V	69V	10A	30,0 kg	380x215x225
LFC60.8-60 C60	60,8V	60Ah	60A	180A	53V	69V	12A	33,0 kg	380x215x270
LFC60.8-70 C60	60,8V	70Ah	60A	180A	53V	69V	14A	40,5 kg	365x235x270
LFC60.8-80 C60	60,8V	80Ah	60A	180A	53V	69V	16A	47,5 kg	560x310x200
LFC73.6-24 C30	73,6V	24Ah	30A	60A	64V	84V	4,8A	16,8 kg	280x215x165
LFC73.6-24 C60	73,6V	24Ah	60A	60A	64V	84V	4,8A	16,8 kg	280x215x165
LFC73.6-30 C30	73,6V	30Ah	30A	90A	64V	84V	6A	20,5 kg	345x215x165
LFC73.6-30 C60	73,6V	30Ah	60A	90A	64V	84V	6A	20,5 kg	345x215x165
LFC73.6-40 C60	73,6V	40Ah	60A	120A	64V	84V	8A	27,6 kg	375x230x180
LFC73.6-50 C60	73,6V	50Ah	60A	150A	64V	84V	10A	34,8 kg	340x230x270
LFC73.6-60	73,6V	60Ah	60A	180A	64V	84V	12A	38,5 kg	365x235x270
LFC73.6-70	73,6V	70Ah	80A	210A	64V	84V	12A	48,5 kg	520x340x160
LFC73.6-80	73,6V	80Ah	60A	180A	64V	84V	12A	48,5 kg	235x310x430
LFC64-24	64V	24Ah	30A	60A	56V	73V	4,8A	15,5 kg	310x183x165
LFC64-24	64V	24Ah	60A	60A	56V	73V	4,8A	15,5 kg	310x183x165
LFC64-30	64V	30Ah	30A	90A	56V	73V	6A	18,5 kg	350x183x165
LFC64-30	64V	30Ah	60A	90A	56V	73V	6A	18,5 kg	350x183x165
LFC64-40	64V	40Ah	60A	120A	56V	73V	8A	25 kg	310x205x240
LFC64-50	64V	50Ah	60A	150A	56V	73V	10A	31,2 kg	380x215x225
LFC64-60	64V	60Ah	60A	180A	56V	73V	12A	34,5 kg	380x215x270
LFC64-70	64V	70Ah	60A	180A	56V	73V	14A	40,5 kg	365x235x270
LFC64-80	64V	80Ah	60A	180A	56V	73V	16A	47,5 kg	560x310x200
LFC76.8-24	76,8V	24Ah	30A	60A	67V	87,6V	4,8A	16,8 kg	280x215x165
LFC76.8-24	76,8V	24Ah	50A	60A	67V	87,6V	4,8A	16,8 kg	280x215x165
LFC76.8-30	76,8V	30Ah	30A	90A	67V	87,6V	6A	21 kg	345x215x165
LFC76.8-30	76,8V	30Ah	50A	90A	67V	87,6V	6A	21 kg	345x215x165
LFC76.8-40	76,8V	40Ah	50A	120A	67V	87,6V	8A	28,2 kg	300x230x240
LFC76.8-50	76,8V	50Ah	50A	150A	67V	87,6V	10A	35,9 kg	365x230x270
LFC76.8-60	76,8V	60Ah	50A	150A	67V	87,6V	12A	40 kg	365x230x270
LFC76.8-70	76,8V	70Ah	80A	210A	67V	87,6V	14A	48,5 kg	520x340x160





LFC Series

LiFePO₄ Technology – OEM Pack

Applications

- Power Backup Systems
- Solar & Wind Energy Storage

Characteristics

- Highly customizable
- LiFePO₄ chemistry
- Capacity range: 12Ah to 70Ah
- Voltage range 3.2V – 76.8V
- Design life: > 15 years, (depending on cycles)
- Cycle life: Up to 3000 Cycles at 100% DOD
- Cell types: Cylindrical / Prismatic
- Self-discharge per month: ≤ 3% at 25°C
- Operation temperature range: – 0°C to + 45°C
- Recommended operation temperature: 25°C
- Safety protection: overvoltage, overcurrent, overcharge, overdischarge, undervoltage, temperature, etc.

BMS

- High-precision Master/Slave monitoring system
- Safety protection: overvoltage, overcurrent, overcharge, overdischarge, undervoltage, temperature, etc.

Certifications



Compliant to: IEC 62133-2

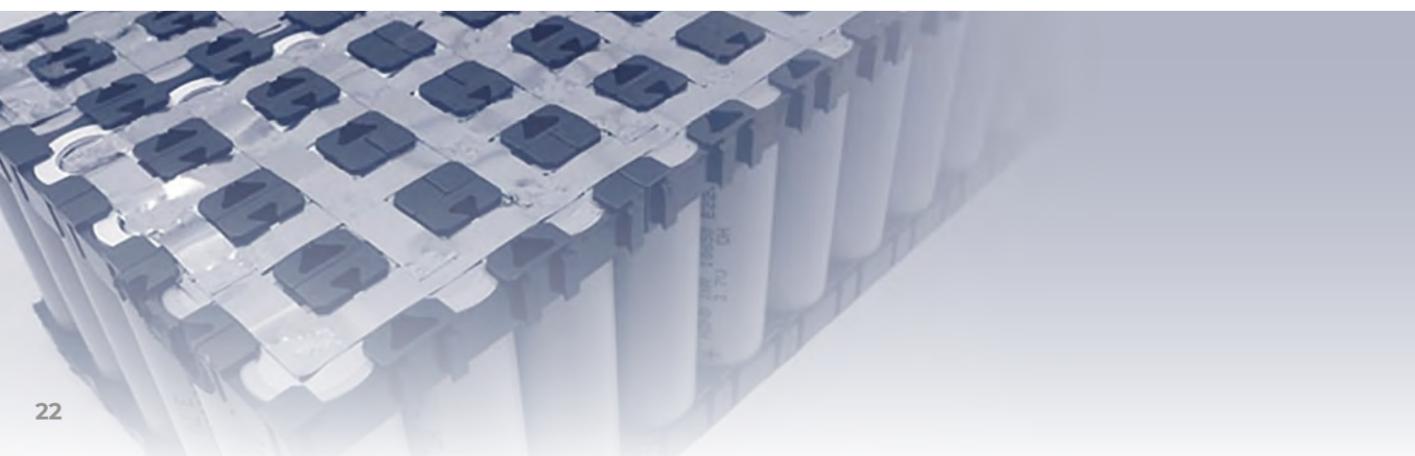
Design Features

- Longer cycle life: Up to 15 times longer cycle life and 5 times longer float/calendar life than lead-acid batteries.
- More capacity – Provides up to 100% of usable energy.
- Lightweight – 60% lighter than lead-acid batteries.
- High discharge rate – Ability to fully discharge the battery at a high rate of discharge.
- Fast charging – Charges much faster than conventional sealed lead-acid batteries.
- Long cycle life – Up to 3000 cycles at 100% depth of discharge.
- Intelligent BMS – The battery management system monitors and adapts to battery conditions to maximize performance and safety.



LFC Series - OEM Pack

Battery Model	Rated Voltage	Rated Capacity	Discharge Current	Peak Discharge Current	Cut off Discharge Voltage	Charge Voltage	Charge Current	Weight	Dimension LxWxH [mm]
LFC12.8-12	12,8V	12Ah	20A	30A	11,2V	14,6V	2,4A	1,17 kg	140x70x80
LFC12.8-18	12,8V	18Ah	36A	54A	11,2V	14,6V	3,6A	2,34 kg	140x135x80
LFC12.8-24	12,8V	24Ah	40A	60A	11,2V	14,6V	4,8A	2,34 kg	140x135x80
LFC12.8-30	12,8V	30Ah	60A	90A	11,2V	14,6V	6A	4,09 kg	200x140x80
LFC12.8-35	12,8V	35Ah	70A	105A	11,2V	14,6V	7A	4,67 kg	235x140x80
LFC12.8-40	12,8V	40Ah	80A	120A	11,2V	14,6V	8A	5,26 kg	270x140x80
LFC12.8-45	12,8V	45Ah	90A	135A	11,2V	14,6V	9A	5,84 kg	270x180x80
LFC12.8-50	12,8V	50Ah	100A	150A	11,2V	14,6V	10A	6,42 kg	320x140x100
LFC12.8-60	12,8V	60Ah	120A	180A	11,2V	14,6V	12A	7,31 kg	270x210x80
LFC12.8-80	12,8V	80Ah	160A	240A	11,2V	14,6V	16A	9,64 kg	200x175x150
LFC25.6-12	25,6V	12Ah	20A	30A	22,4V	29,2V	2,4A	2,34 kg	140x135x80
LFC25.6-18	25,6V	18Ah	30A	45A	22,4V	29,2V	3,6A	3,50 kg	200x140x80
LFC25.6-24	25,6V	24Ah	40A	60A	22,4V	29,2V	4,8A	4,67 kg	270x140x80
LFC25.6-30	25,6V	30Ah	60A	90A	22,4V	29,2V	6A	8,18 kg	270x200x80
LFC25.6-35	25,6V	35Ah	70A	105A	22,4V	29,2V	7A	9,34 kg	270x240x80
LFC25.6-40	25,6V	40Ah	80A	120A	22,4V	29,2V	8A	10,51 kg	270x270x80
LFC25.6-50	25,6V	50Ah	100A	150A	22,4V	29,2V	10A	12,85 kg	330x270x80



LFC Series

NCM (LiNiMnCoO₂) Technology – Solar Street Light

Applications

- Solar Street Light

Characteristics

- Highly customizable
- LiNiMnCoO₂ chemistry
- Capacity range: 8Ah to 60Ah
- Voltage range 11.1V
- Design life: > 15 years, (depending on cycles)
- Cell types: Cylindrical/Prismatic/Pouch Cell
- Self-discharge per month: ≤ 3% at 25°C
- Operation temperature range: – 0°C to + 45°C
- Recommended operation temperature: 25°C
- Safety protection: overvoltage, overcurrent, overcharge, over-discharge, undervoltage, temperature, etc.

BMS

- High-precision monitoring system
- Safety protection: overvoltage, overcurrent, overcharge, overdischarge, undervoltage, temperature, etc.

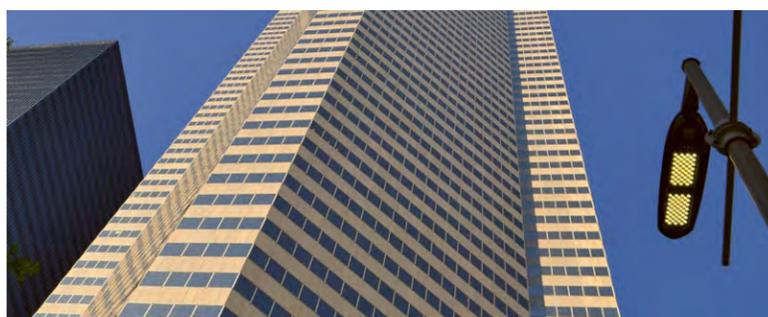
Certifications



Compliant to: IEC 62133-2

Design Features

- Longer cycle life: Up to 15 times longer cycle life and 5 times longer float/calendar life than lead-acid batteries.
- More capacity – Provides up to 100% of usable energy.
- Lightweight – 60% lighter than lead-acid batteries.
- High discharge rate – Ability to fully discharge the battery at a high rate of discharge.
- Fast charging – Charges much faster than conventional sealed lead-acid batteries.
- Intelligent BMS – The battery management system monitors and adapts to battery conditions to maximize performance and safety.



LFC Series - Solar Street Light

Battery Model	Rated Voltage	Rated Capacity	Discharge Current	Peak Discharge Current	Cut off Discharge Voltage	Charge Voltage	Charge Current	Weight	Container
LFC11.1-8N	11,1V	8Ah	16A	24A	8,4V	12,6V	1,6A	0,54kg	without
LFC11.1-10N	11,1V	10Ah	20A	30A	8,4V	12,6V	2A	0,675kg	without
LFC11.1-12N	11,1V	12Ah	24A	36A	8,4V	12,6V	2,4A	0,81kg	without
LFC11.1-14N	11,1V	14Ah	28A	42A	8,4V	12,6V	2,8A	0,945kg	without
LFC11.1-16N	11,1V	16Ah	32A	48A	8,4V	12,6V	3,2A	1,08kg	without
LFC11.1-18N	11,1V	18Ah	36A	54A	8,4V	12,6V	3,6A	1,215kg	without
LFC11.1-20N	11,1V	20Ah	40A	60A	8,4V	12,6V	4A	1,35kg	without
LFC11.1-24N	11,1V	24Ah	48A	72A	8,4V	12,6V	4,8A	1,62kg	without
LFC11.1-26N	11,1V	26Ah	52A	78A	8,4V	12,6V	5,2A	1,755kg	without
LFC11.1-30N	11,1V	30Ah	60A	90A	8,4V	12,6V	6A	2,025kg	without
LFC11.1-32N	11,1V	32Ah	64A	96A	8,4V	12,6V	6,4A	2,16kg	without
LFC11.1-35N	11,1V	35Ah	70A	105A	8,4V	12,6V	7A	2,16kg	without
LFC11.1-40N	11,1V	40Ah	80A	120A	8,4V	12,6V	8A	2,7kg	without
LFC11.1-45N	11,1V	45Ah	90A	135A	8,4V	12,6V	9A	2,7kg	without
LFC11.1-50N	11,1V	50Ah	100A	150A	8,4V	12,6V	10A	2,7kg	without
LFC11.1-60N	11,1V	60Ah	120A	180A	8,4V	12,6V	12A	3,645kg	without
LFC11.1-8	11,1V	8Ah	16A	24A	8,4V	12,6V	1,6A	1,34kg	Yes
LFC11.1-10	11,1V	10Ah	20A	30A	8,4V	12,6V	2A	1,475kg	Yes
LFC11.1-12	11,1V	12Ah	24A	36A	8,4V	12,6V	2,4A	1,61kg	Yes
LFC11.1-14	11,1V	14Ah	28A	42A	8,4V	12,6V	2,8A	1,745kg	Yes
LFC11.1-16	11,1V	16Ah	32A	48A	8,4V	12,6V	3,2A	1,88kg	Yes
LFC11.1-18	11,1V	18Ah	36A	54A	8,4V	12,6V	3,6A	2,015kg	Yes
LFC11.1-20	11,1V	20Ah	40A	60A	8,4V	12,6V	4A	2,15kg	Yes
LFC11.1-24	11,1V	24Ah	48A	72A	8,4V	12,6V	4,8A	2,42kg	Yes
LFC11.1-26	11,1V	26Ah	52A	78A	8,4V	12,6V	5,2A	2,555kg	Yes
LFC11.1-30	11,1V	30Ah	60A	90A	8,4V	12,6V	6A	2,825kg	Yes
LFC11.1-32	11,1V	32Ah	64A	96A	8,4V	12,6V	6,4A	2,96kg	Yes
LFC11.1-35	11,1V	35Ah	70A	105A	8,4V	12,6V	7A	2,96kg	Yes
LFC11.1-40	11,1V	40Ah	80A	120A	8,4V	12,6V	8A	3,5kg	Yes
LFC11.1-45	11,1V	45Ah	90A	135A	8,4V	12,6V	9A	3,5kg	Yes
LFC11.1-50	11,1V	50Ah	100A	150A	8,4V	12,6V	10A	3,5kg	Yes
LFC11.1-60	11,1V	60Ah	120A	180A	8,4V	12,6V	12A	4,645kg	Yes

Portable Power Station

AC / DC Output



Overview

- The Portable Power Station is a universal power supply for all kinds of appliances. The device comes in three different options - 300W, 500W, and 1000W, suitable for charging power lamps, tools, coolers, lighting, laptops, smartphones, and many other devices. With its 800 cycles, the Lithium-Ion battery provides a long and stable power supply for your indoor needs or outdoor adventures.
- The Portable Power Station can be charged in different ways – directly from the power grid using the power adaptor, from your car, Type-C, or even solar panel. The device has different output outlets: 110V/220V AC as well as DC outlets: Car outlet, DC5.5x2.5, USB QC3, and USB Type-C.
- Thanks to the handle, portable size, and low weight, the Portable Power Station can be the perfect companion everywhere you go.



Portable Solar Systems

Model	500W	1000W	300W
Power (W)	500	1000	300
Capacity (Wh)	500	1065	296
Inverter	Sine wave	Sine wave	Sine wave
Full charge time	8 hours	7 hours	6 hours
Charging options	AC to DC Power adaptor, Car charger, Solar panel, USB Type-C		
DC output	12-16.8V/7-10A, Car outlet, DC5.5x2.5	12V/10A, Car outlet, DC5.5x2.5	12-16.8V/7-10A, Car outlet, DC5.5x2.5
AC output	220V/50Hz (110V/60Hz) 500W(max)	220V/50Hz (110V/60Hz) 1000W(max)	220V/50Hz (110V/60Hz) 300W peak 450W
USB output	1 x USB QC3.0 18W, 2 x USB 5V/2.4A		3 x USB 5V/2.4A
Type-C:	5V-20V/3.25A Max PD65W		N/A
Wireless output	10W	2 x 10W	N/A
LED light	SOS, 3 level lighting, Alert		SOS, Lighting, Alert
SOC	LCD screen		
Cycle life	800 cycles		
Size	306 x 171 x 202 mm	413 x 203 x 232 mm	227 x 170 x 176 mm
Weight	4,8 kg	9 kg	2,8 kg
Accessories	Power supply, Adapter, Instruction		
Power bank option	Car charger		

Solar option 1	60W Mono silicon cell x1 18V/3.3A 3meter DC wire, USB QC3.0 24W+Type-C, PD45W, 600D waterproof drapery
Solar option 2	100W Mono silicon cell x1 18V/3.3A 3meter DC wire, USB QC3.0 24W+Type-C, PD45W, 600D waterproof drapery
Solar option 3	120W Mono silicon cell (30W x 4pcs) 18V/3.3A 3meter DC wire, USB QC3.0 24W+Type-C, PD45W, 600D waterproof drapery
Solar option 4	200W Mono silicon cell (50W x 4pcs) 18V/11.1A 1.5meter MC4 wire, USB QC3.0 24W+Type-C, PD45W, 600D waterproof drapery
Solar Accessories	2pcs fixture, 3pcs connector adapter, instructions, package



LPC Series

Polymer lithium-ion rechargeable pouch cell

Design Features

- **Longer Cycle Life:** Offers up to 15 times longer cycle life and 5 times longer float/calendar life than lead acid battery.
- **Lighter Weight:** About 38% weight of a comparable lead acid battery, save up to 60% in weight.
- **Quick Charge:** Short charge time compared with lead acid battery.
- **Low Self-Discharge:** Lower self-discharge compared with lead acid battery, longer storage time without recharging.
- **Superior Safety:** Multi-protection methods built inside to protect the battery from overcharge, over discharge and short circuit situation.
- **High Efficient:** Higher round-trip energy efficiency of the average (96%) than lead acid battery 80% (discharge from 100% to 0% and back to 100% charged).

Battery Model	Capacity (mAh)	IR (mΩ)	Length (mm)	Width (mm)	Thickness (mm)	Terminal WxH	Weight (g)	Charge voltage(V)	BMS	Cycle life and condition 0.5C 100%DOD, 80%EOL
LPC3.7-7.5	7 500	8.0	145	66,5	9.00	10x10	190	4.2V	upon request	3200 @ 25° 0.5C
LPC3.7-8	8 000	7.0	145	66,5	9.70	10x10	210	4.2V	upon request	3200 @ 25° 0.5C
LPC3.7-10	10 000	6.0	145	66,5	12.00	10x10	260	4.2V	upon request	3200 @ 25° 0.5C
LPC3.7-12	12 000	6.0	145	66,5	14.00	10x10	320	4.2V	upon request	3200 @ 25° 0.5C
LPC3.7-15	15 000	5.0	170	113	9.00	20x10	380	4.2V	upon request	3200 @ 25° 0.5C
LPC3.7-20A	20 000	4.0	170	113	11.50	20x10	480	4.2V	upon request	3200 @ 25° 0.5C
LPC3.7-20B	20 000	4.0	182	154	8.20	20x10	480	4.2V	upon request	3200 @ 25° 0.5C
LPC3.7-20C	20 000	4.0	165	148	9.30	20x10	480	4.2V	upon request	3200 @ 25° 0.5C
LPC3.7-25A	25 000	3.0	165	148	11.70	20x10	580	4.2V	upon request	3200 @ 25° 0.5C
LPC3.7-25B	25 000	3.0	182	154	9.80	20x10	580	4.2V	upon request	3200 @ 25° 0.5C
LPC3.7-30A	30 000	2.0	182	154	12.00	20x10	680	4.2V	upon request	3200 @ 25° 0.5C
LPC3.7-30B	30 000	2.0	165	148	13.80	20x10	680	4.2V	upon request	3200 @ 25° 0.5C
LPC3.7-33.5	33 500	2.0	182	154	13.50	20x10	720	4.2V	upon request	3200 @ 25° 0.5C



Certifications

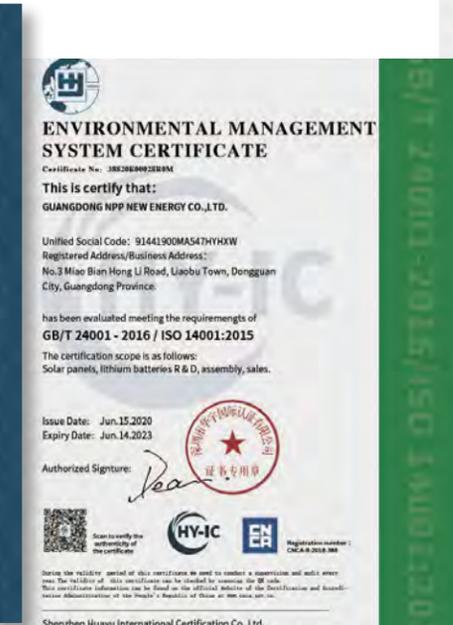


Compliant to: IEC 62133-2

Certificates



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018



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