

LiFePO₄ Lithium Batteries for Renewable Energy & Motive Power Applications

Suitable for residential & commercial off-grid and grid-connected backup applications as well as Motive Power vehicles including golf carts, floor scrubbers and scissor lifts.

R - S E R I E S L F P

Rolls high performance 12V & 24V R-Series Lithium-Iron-Phosphate (LiFePO₄) batteries provide a compatible drop-in SLA replacement with fast charging/discharging capability, compact case design, up to 48V connectivity, and are up to 50% lighter than equivalent lead-acid battery models.

Offered in popular GC2, G31, 4D & 8D case sizes with a range of capacity options, R-Series Motive Power 36V & 48V LiFePO₄ models allow seamless replacement in a variety of industrial and recreational equipment and up to 6 connected in parallel for increased capacity. Two 48V custom models are also available with durable custom metal case construction designed specifically for golf cart & light EV applications.

MODEL	BCI	SERIES & PARALLEL	NOMINAL CAPACITY [Ah]	RATED CAPACITY [kWh]	LENGTH MM	WIDTH MM	HEIGHT MM	WEIGHT KG
12 VOLT - 12.8V								
R12-100LFP	G24	4S4P	100 Ah	1.28 kWh	260mm	170mm	211mm	11.5kg
R12-135LFP	G31	4S4P	135 Ah	1.728 kWh	330mm	173mm	219mm	15kg
R12-150LFP	G31	4S4P	150 Ah	1.92 kWh	330mm	173mm	219mm	15.5kg
R12-200LFP	G49	4S4P	200 Ah	2.56 kWh	490mm	171mm	243mm	22kg
R12-300LFP	8D	4S4P	300 Ah	3.84 kWh	521mm	267mm	223mm	33kg
24 VOLT - 25.6V								
R24-50LFP	G24	2S4P	50 Ah	1.28 kWh	260mm	170mm	211mm	12kg
R24-100LFP	G49	2S4P	100 Ah	2.56 kWh	490mm	171mm	243mm	22kg
R24-150LFP	8D	2S4P	150 Ah	3.84 kWh	521mm	267mm	223mm	33.5kg
MOTIVE POWER								
36 VOLT - 38.4V								
R36-52LFP	G31	1S6P	52 Ah	2.00 kWh	330mm	173mm	219mm	16.5kg
R36-60LFP	G31	1S6P	60 Ah	2.30 kWh	330mm	173mm	219mm	17kg
R36-65LFP	G31	1S6P	65 Ah	2.50 kWh	330mm	173mm	219mm	17kg
R36-100LFP	4D	1S6P	100 Ah	3.84 kWh	521mm	238mm	221mm	31kg
R36-120LFP	4D	1S6P	120 Ah	4.61 kWh	521mm	238mm	221mm	33kg
48 VOLT - 51.2V								
R48-32LFP	GC2	1S6P	32 Ah	1.64 kWh	260mm	180mm	273mm	13.8kg
R48-35LFP	GC2	1S6P	35 Ah	1.79 kWh	260mm	180mm	273mm	15kg
R48-105LFP	8D	1S4P	105 Ah	5.38 kWh	521mm	267mm	223mm	40kg
R48-105EV-LFP A	METAL	1S4P	105 Ah	5.38 kWh	404mm	324mm	250mm	45kg
R48-105EV-LFP B	METAL	1S4P	105 Ah	5.38 kWh	519mm	250mm	265mm	45kg

To view all available models and full product specifications, including the full range of premium deep cycle Series 4000, 4500 & 5000 flooded lead-acid, sealed AGM & GEL, and LiFePO₄ lithium models, visit www.rollsbattery.com

Rolls batteries are sold exclusively via authorized distributors & dealers worldwide.



12V & 24V Drop-in Replacements

- Connect in series up to 48V configuration*
- Connect up to 4 parallel strings for increased capacity*
- Built-in BMS with operating protections
- >6000 cycles @ 80% DOD
- >4000 cycles @ 100% DOD
- 3-year warranty



36V & 48V Motive Power

- Popular BCI case sizes for seamless replacement
- Connect up to 6 in parallel for increased capacity*
- Built-in BMS with operating protections
- 3-year warranty

*Refer to Rolls R-Series LFP Battery Operating Manual for detailed instructions.

1.800.681.9914
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S - S E R I E S L F P

Rolls NEW S-Series Lithium-Iron-Phosphate (LiFePO₄) models offer additional enhancements to the high performance R-Series 12V & 24V R-Series drop-in replacement models, including a redesigned case structure with removable cover for authorized service and a number of additional features including up to 4S4P or 1S6P connectivity, an integrated display & controls with visual state-of-charge (SOC) indication, operating protections with visual error indication, heating for low temperature operation [-20 C (-4 F) to 0 C(32 F) charging] external fuse access, a dedicated app and Bluetooth connectivity

MODEL	BCI	SERIES & PARALLEL	NOMINAL CAPACITY [Ah]	RATED CAPACITY [kWh]	LENGTH MM	WIDTH MM	HEIGHT MM	WEIGHT KG
12 VOLT - 12.8V								
S12-100LFP	G24	4S4P, 1S6P	100 Ah	1.28 kWh	266mm	177mm	235mm	12kg
S12-135LFP	G31	4S4P, 1S6P	135 Ah	1.728 kWh	332mm	171mm	227mm	15.5kg
S12-150LFP	G31	4S4P, 1S6P	150 Ah	1.92 kWh	332mm	171mm	227mm	16kg
S12-200LFP	G49	4S4P, 1S6P	200 Ah	2.56 kWh	505mm	185mm	243mm	23kg
S12-300LFP	8D	4S4P, 1S6P	300 Ah	3.84 kWh	522mm	268mm	240mm	34kg
24 VOLT - 25.6V								
S24-50LFP	G24	2S4P, 1S6P	50 Ah	1.28 kWh	266mm	177mm	235mm	12.5kg
S24-100LFP	G49	2S4P, 1S6P	100 Ah	2.56 kWh	505mm	185mm	243mm	23.5kg
S24-150LFP	8D	2S4P, 1S6P	150 Ah	3.84 kWh	522mm	268mm	240mm	34.5kg

Note: To enable fuse and case access, battery maximum dimensions have increased. However, product footprints match the R-Series equivalent case sizes.

S - S E R I E S L F P E S S

Rolls 48V 100Ah S-Series Lithium-Iron-Phosphate (LiFePO₄) Energy Storage System (ESS) models offers a fully integrated and scalable energy storage solution with built-in LCD screen & controls, secondary protections in a rack-mount [19" (482mm)] 4U case design. The optional Rolls LFP ESS modular cabinet allows up to 8-unit installation with top-mount connectivity, including CAN bus, and locking casters, offering added safety in a custom, streamlined design.

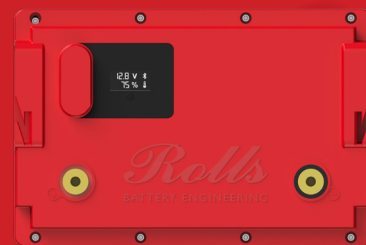


S48-100LFP ESS



Rolls LFP ESS Modular Cabinet

MODEL	BCI	SERIES & PARALLEL	NOMINAL CAPACITY [Ah]	RATED CAPACITY [kWh]	LENGTH MM	WIDTH MM	HEIGHT MM	WEIGHT KG
48 VOLT - 51.2V								
S48-100LFP ESS	4U	1S15P	100 Ah	5.12 kWh	502mm	485mm	173mm	50.5kg



12V & 24V Drop-in Replacements

R-Series LFP protections & features, plus;

- 4S4P (up to 48V) or 1S6P connectivity
- Integrated display & controls
- Visual state-of-charge (SOC) indication
- Operating protections with error display
- Heating for low temperature operation [-20 C (-4 F) to 0 C(32 F) charging]
- External fuse access
- Removable cover for service by an authorized technician
- Bluetooth and dedicated App
- 3-year warranty

S-SERIES LFP ESS

48V 100Ah Energy Storage Solution

- 19" (482mm) 4U case design
- Up to 15 parallel connectivity
- Integrated LCD display & controls
- Optional Rolls LFP ESS modular cabinet for up to 8x units
- PC Connectivity
- UL 1973
- 3-year warranty

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