

Rolls

BATTERY ENGINEERING

VIEW PRODUCT SPECIFICATIONS

- ELEVATED WORK PLATFORMS
- GOLF CARTS & LIGHT EV
- MARINE SYSTEMS
- RAILROAD SIGNALING
- RECREATIONAL VEHICLES
- RENEWABLE ENERGY
- TELECOMMUNICATIONS
- UPS BACKUP

DROP-IN REPLACEMENT & DC ESS

LFP BATTERIES

R-SERIES

5-Year manufacturer warranty



- Built-in Battery Management System (BMS)
- Up to 4S4P (12V), 2S4P (24V) or 1S6P (36V & 48V) connection
- Bluetooth connectivity & **Rolls LFP Connect App** for IOS & Android
- >6000 cycles @ 80% DOD, >4000 cycles @ 100% DOD

Rolls R-Series 12V, 24V, 36V, and 48V LFP models are offered in standard BCI case sizes allowing easy drop-in replacement for traditional deep cycle lead-acid models in a variety of applications.

MODEL	BCI	SERIES & PARALLEL	NOMINAL CAPACITY [Ah]	RATED CAPACITY [kWh]	LENGTH IN | MM	WIDTH IN | MM	HEIGHT IN | MM	WEIGHT LB | KG
12 VOLT - 12.8V NOMINAL								
R12-100LFP	G24	4S4P, 1S6P	100 Ah	1.28 kWh	10.24" | 260mm	6.69" | 170mm	8.3" | 211mm	25.4lb | 11.5kg
R12-135LFP	G31	4S4P, 1S6P	135 Ah	1.73 kWh	13" | 330mm	6.81" | 173mm	8.62" | 219mm	33lb | 15kg
R12-150LFP	G31	4S4P, 1S6P	150 Ah	1.92 kWh	13" | 330mm	6.81" | 173mm	8.62" | 219mm	34.2lb | 15.5kg
R12-200LFP	SPEC	4S4P, 1S6P	200 Ah	2.56 kWh	19.3" | 490mm	6.73" | 171mm	9.57" | 243mm	48.5lb | 22kg
R12-300LFP	8D	4S4P, 1S6P	300 Ah	3.84 kWh	20.5" | 521mm	10.51" | 267mm	8.78" | 223mm	72.8lb | 33kg
24 VOLT - 25.6V NOMINAL								
R24-50LFP	G24	2S4P, 1S6P	50 Ah	1.28 kWh	10.24" | 260mm	6.69" | 170mm	8.3" | 211mm	26.5lb | 12kg
R24-100LFP	SPEC	2S4P, 1S6P	100 Ah	2.56 kWh	19.3" | 490mm	6.73" | 171mm	9.57" | 243mm	48.5lb | 22kg
R24-150LFP	8D	2S4P, 1S6P	150 Ah	3.84 kWh	20.5" | 521mm	10.51" | 267mm	8.78" | 223mm	73.6lb | 33.5kg
36 VOLT - 38.4V NOMINAL								
R36-60LFP	G31	1S6P	60 Ah	2.30 kWh	13" | 330mm	6.81" | 173mm	8.62" | 219mm	37.5lb | 17kg
R36-100LFP	4D	1S6P	100 Ah	3.84 kWh	20.5" | 521mm	9.37" | 238mm	8.7" | 221mm	68.3lb | 31kg
48 VOLT - 51.2V NOMINAL								
R48-35LFP	GC2	1S6P	35 Ah	1.79 kWh	10.24" | 260mm	7.09" | 180mm	10.75" | 273mm	33lb | 15kg
R48-90LFP	8D	1S6P	90 Ah	4.61 kWh	20.5" | 521mm	10.51" | 267mm	8.78" | 223mm	75lb | 34kg

Additional R-Series LFP options are available by special order including 12V & 24V front terminal models for UPS, telecommunications, and other cabinet installations and backup systems, as well as low profile cases for RV and light EV applications.



G-SERIES

5-Year manufacturer warranty

Rolls G48-105LFP A-SHORT & B-LONG metal case 48V models for golf & light EV feature an integrated CAN bus communication port, cable and dash-mount SOC monitor.

R-Series LFP features, plus;

- Integrated screen & controls
- External fuse access on select models
- Up to 2C peak discharge capability
- Improved build quality
- Removable cover for authorized service

Available in 12V, 24V, 36V, and 48V options, Rolls G-Series LFP models are engineered to meet the demands of golf carts, light EV, and other motive power applications, with select models supporting up to 10-minute 2C peak discharge.

MODEL	BCI	SERIES & PARALLEL	NOMINAL CAPACITY [Ah]	RATED CAPACITY [kWh]	LENGTH IN | MM	WIDTH IN | MM	HEIGHT IN | MM	WEIGHT LB | KG
12 VOLT - 12.8V NOMINAL								
G12-450LFP	8D	4S4P, 1S6P	450 Ah	5.76 kWh	20.55" | 522mm	10.55" | 268mm	9.13" | 232mm	88.2lb | 40kg
24 VOLT - 25.6V NOMINAL								
G24-40LFP	G24	4S4P, 1S6P	40 Ah	1.02 kWh	10.47" | 266mm	6.97" | 177mm	9.25" | 235mm	24.3lb | 11kg
G24-130LFP	8D	4S4P, 1S6P	130 Ah	3.33 kWh	20.55" | 522mm	10.55" | 268mm	9.13" | 232mm	66.1lbs | 30kg
36 VOLT - 38.4V NOMINAL								
G36-50LFP	G31	1S6P	50 Ah	1.92 kWh	10.47" | 266mm	6.97" | 177mm	9.25" | 235mm	38.6lb | 17.5kg
G36-95LFP	8D	1S6P	95 Ah	3.65 kWh	20.55" | 522mm	10.55" | 268mm	9.13" | 232mm	70.5lb | 32kg
48 VOLT - 51.2V NOMINAL								
G48-45LFP	SPEC	1S6P	45 Ah	2.30kWh	19.76" | 502mm	7.28" | 185mm	9.29" | 236mm	46.3lb | 21kg
G48-70LFP	8D	1S6P	70 Ah	3.58kWh	20.55" | 522mm	10.55" | 268mm	9.13" | 232mm	70.5lb | 32kg
G48-105LFP A-SHORT	METAL	1S4P	105 Ah	5.38 kWh	16.57" | 421mm	12.75" | 324mm	10.43" | 265mm	99.2lb | 45kg
G48-105LFP B-LONG	METAL	1S4P	105 Ah	5.38 kWh	20.94" | 532mm	9.84" | 250mm	10.98" | 279mm	99.2lb | 45kg

Note: To enable fuse access and authorized servicing, battery design and dimensions vary from standard R-Series LFP case options.

S-SERIES

5-Year manufacturer warranty



R-Series LFP features, plus;

- Integrated screen & controls
- External fuse access
- Removable cover for authorized service
- Up to 1C charge rate
- Heating for low temperature operation [-20°C (-4°F) to 0°C(32°F) charging]

External fuse access with removable cover

Onboard display provides:

- Visual state-of-charge (SOC) & voltage indication
- Operating protections with error display
- Heating function status
- Bluetooth connection status

Rolls S-Series 12V, 24V, and 48V LFP batteries are built for performance and long cycle life, featuring a custom case design, external fuse access for on-site maintenance, and internal heating to allow charging in cold temperatures.

MODEL	BCI	SERIES & PARALLEL	NOMINAL CAPACITY [Ah]	RATED CAPACITY [kWh]	LENGTH IN | MM	WIDTH IN | MM	HEIGHT IN | MM	WEIGHT LB | KG
12 VOLT - 12.8V NOMINAL								
S12-100LFP	G24	4S4P, 1S6P	100 Ah	1.28 kWh	10.47" | 266mm	6.97" | 177mm	9.25" | 235mm	26lb | 11.8kg
S12-135LFP	G31	4S4P, 1S6P	135 Ah	1.73 kWh	13.03" | 331mm	6.73" | 171mm	9.02" | 229mm	32.2lb | 14.6kg
S12-150LFP	G31	4S4P, 1S6P	150 Ah	1.92 kWh	13.03" | 331mm	6.73" | 171mm	9.02" | 229mm	34.6lb | 15.7kg
S12-200LFP	SPEC	4S4P, 1S6P	200 Ah	2.56 kWh	19.76" | 502mm	7.28" | 185mm	9.29" | 236mm	46.3lb | 21kg
S12-300LFP	8D	4S4P, 1S6P	300 Ah	3.84 kWh	20.55" | 522mm	10.55" | 268mm	9.13" | 232mm	67.2lb | 30.5kg
24 VOLT - 25.6V NOMINAL								
S24-50LFP	G24	2S4P, 1S6P	50 Ah	1.28 kWh	10.47" | 266mm	6.97" | 177mm	9.25" | 235mm	23.1lb | 10.5kg
S24-100LFP	SPEC	2S4P, 1S6P	100 Ah	2.56 kWh	19.76" | 502mm	7.28" | 185mm	9.29" | 236mm	44.8lb | 20.3kg
S24-150LFP	8D	2S4P, 1S6P	150 Ah	3.84 kWh	20.55" | 522mm	10.55" | 268mm	9.13" | 232mm	66.1lb | 30kg
48 VOLT - 51.2V NOMINAL								
S48-55LFP	SPEC	1S6P	55 Ah	2.82kWh	19.76" | 502mm	7.28" | 185mm	9.29" | 236mm	46.3lb | 21kg

Note: To enable fuse access and authorized servicing, battery design and dimensions vary from standard R-Series LFP case options.

S-SERIES ESS
RESIDENTIAL ENERGY STORAGE SYSTEM

7-Year manufacturer warranty, plus 3 years with product registration

S48-100LFP STACK-LV

STACKABLE DC ESS

- Built-in Battery Management System (BMS)
- 51.2V 100AH 5.12kWh modules
- Parallel up to 8 units [40kWh]
- Secondary protection – Internal BMS Switch, Relay & External Breaker Access
- Dual busbar connection
- Up to 400A charge & discharge (5+ units)
- RS-485 & CAN BUS communication
- LFP Desktop V2 PC software & LFP Connect App
- Bluetooth connection
- UL 9540 Ed.3 , UL 9540A , UL 1973
- 7-Year manufacturer warranty + 3 years with product registration



LFP STACK BASE+TOP ASSEMBLY

- UL 9540
- UL 9540A
- UL 1973
- IEC 62619 CELL
- UN 38.3

S48-100LFP STACK-LV $LiFePO_4$ lithium battery is a UL 9540-certified (Ed. 3) stackable 51.2V 100Ah [5.12kWh] module providing an approved residential DC ESS solution with the option to connect to a variety of industry-leading UL 1741-certified hybrid inverters.

With the LFPSTACK BASE+TOP ASSEMBLY, up to eight (8) modules can be stacked to deliver 40 kWh of usable energy storage. Integrated RS-485 and CAN bus ports, along with included cabling, enable seamless inverter connection. Closed-loop communication is easily configured using the Rolls LFP Desktop V2 PC software or via Bluetooth with the Rolls LFP Connect app, available for iOS and Android.



S48-100LFP STACK-LV

module front & rear view

LEARN MORE





www.rollsbattery.com

For help with installation, charging, maintenance, or troubleshooting of Rolls LFP drop-in replacement batteries, ESS solutions, or deep-cycle lead-acid models, please visit our Support page or submit a ticket to Rolls Battery Technical Support using this link.

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