

NSS Technologies (Pty) Ltd Battery Portfolio



Why Batteries?

Established in 2013, NSS Technologies has emerged as a prominent manufacturer of cutting-edge Lithium Iron Phosphate batteries. Our commitment to innovation is further exemplified through a JV development specializing in the design and manufacturing of Super Capacitors.

The genesis of our Lithium Iron Phosphate battery production was fueled by the market's growing demand for a competitive and locally supported battery product line. Recognizing the challenges posed by inferior imported products from China, NSS Technologies seized the opportunity to leverage insights gained from Super Capacitors development and seamlessly integrated this expertise into our Lithium Iron Phosphate offerings.

Catering to diverse industries, NSS Technologies primarily focuses on serving the domestic and material handling equipment (MHE) sector. However, our ambition knows no bounds, as we are gearing up to expand our horizons in 2023, developing cutting-edge solutions tailored for the mining, solar, and golf car industries.

A testament to our unwavering dedication to excellence, NSS Technologies proudly boasts a track record of manufacturing and selling over 60,000 batteries. Our distributors have consistently rated us as a top-performing brand, a testament to the reliability and performance of our products.

Notably, NSS Technologies has taken a significant step towards establishing a strong global presence by securing the international trademark registration for our brand, Royce Energy.

As we continue to push the boundaries of energy solutions, the subsequent sections of this portfolio offer succinct technical data and applications, providing a glimpse into the unparalleled potential of NSS Technologies' offerings. We look forward to shaping a sustainable and vibrant future through innovation, collaboration, and unmatched product quality.

The information that follows offers brief technical data and applications.

Lithium Iron Phosphate

6,4V 7Ah



<u>Description</u>	<u>Specification</u>
Capacity in Amp Hours	7Ah
Nominal Voltage	6,4V
Maximum Continuous Discharge Current	4A
Maximum Continuous Charge Current	2A
Short circuit protection	Yes
Over Voltage Protection	Yes
Under Voltage Protection	Yes
Over Current protection	Yes
IP Rating	IP30
<u>Application</u> This battery is designed to replace the battery used in the Magneto torch. The torch is fitted with a lead acid battery when purchased.	



Lithium Iron Phosphate

12,8V 7Ah



<u>Description</u>	<u>Specification</u>
Capacity in Amp Hours	7Ah
Nominal Voltage	12,8V
Maximum Continuous Discharge Current	13A
Maximum Continuous Charge Current	3,5A
Short circuit protection	Yes
Over Voltage Protection	Yes
Under Voltage Protection	Yes
Over Current protection	Yes
IP Rating	IP30
<u>Application</u> This battery is designed to be a drop-in replacement for home alarm systems, gate motors, electric fences etc.	



Lithium Iron Phosphate

12,8V 21Ah



<u>Description</u>	<u>Specification</u>
Capacity in Amp Hours	21Ah
Nominal Voltage	12,8V
Maximum Continuous Discharge Current	15A
Maximum Continuous Charge Current	5A
Short circuit protection	Yes
Over Voltage Protection	Yes
Under Voltage Protection	Yes
Over Current protection	Yes
IP Rating	IP30
<u>Application</u> This battery is designed to replace the 12v 18AH lead acid battery in home alarm systems and UPS systems.	



Lithium Iron Phosphate

12,8V 28Ah



<u>Description</u>	<u>Specification</u>
Capacity in Amp Hours	28Ah
Nominal Voltage	12,8V
Maximum Continuous Discharge Current	15A
Maximum Continuous Charge Current	5A
Short circuit protection	Yes
Over Voltage Protection	Yes
Under Voltage Protection	Yes
Over Current protection	Yes
IP Rating	IP30
<u>Application</u> This battery is designed to replace the 12v 18AH lead acid battery in home alarm systems and UPS systems.	



Lithium Iron Phosphate

12,8V 100Ah



<u>Description</u>	<u>Specification</u>
Capacity in Amps Hours	100Ah
Nominal Voltage	12,8V
Maximum Continuous Discharge Current	70A
Maximum Continuous Charge Current	40A
Short circuit protection	Yes
Over Voltage Protection	Yes
Under Voltage Protection	Yes
Over Current protection	Yes
IP Rating	IP30
<u>Application</u> This battery is designed to be a replacement for the 100Ah 12V lead acid battery. The main application for this battery will be UPS and inverters. They can be connected to 4 in series to make a 48v system.	

