SUPER B
lithium batteries



DATASHEET
ANDRENA 12V20Ah

Light-weight, high-performance, safe and reliable lithium power battery, especially developed for motorsports. This battery equals a lead-acid battery of 70 to 100Ah, provided the alternator's maximum current doesn't exceed the battery's maximum charge current of 66A. Designed in a standard rally casing. Suitable for 12V systems and for use in extreme environments.

LIGHTWEIGHT POWER

With a weight of only 3.2 kg / 7.0 lbs, the Andrena 12V20Ah power battery saves up to 70% in weight compared to a lead-acid battery, based on usable capacity, and is considerably more compact. This improves not only the performance of your vehicle but also helps to increase the fuel economy.

The power battery offers a high level of power, fast charging and a long, maintenance-free service life. It also has a stable and flat discharge which means you have over 80% of the battery capacity available and you can leave your vehicle unattended for a much longer period compared to a lead-acid battery.

SAFE AND RELIABLE

Super B batteries are based on lithium iron phosphate technology (LiFePO4). This technology offers high thermal stability. On top of that our bespoke casing and electronics further increase safety and durability. Due to its high ingress protection class (IP69) the battery is completely dust tight and waterproof. Therefore the battery can be used in the most extreme environment as well.

ELECTRICAL SPECIFICATIONS

Nominal Capacity	20Ah
Energy	256Wh
Nominal Voltage	12.8V
Open Circuit Voltage	13.2V
Self Discharge	<3% per Month
Cycle life	>1000 cycles at 10C discharge (100% DoD)
EqPb (Equals lead-acid)	70 to 100Ah

MECHANICAL SPECIFICATIONS

Dimensions (LxWxH)	120 x 82 x 238mm 4.72" x 3.23" x 9.37"
Weight	3.2 kg / 7.0 lbs
Case Material	PC - ABS
Ingress Protection	IP69
Cell Type / Chemistry	Cylindrical - LiFePO4

CHARGE & DISCHARGE SPECIFICATIONS

Charge Method	CCCV
Charge Voltage	14.3V - 14.6V
Max Charge Current	66A
End of Discharge Voltage	8V
Discharge Current Continuous	320A
Discharge Pulse Current (1 sec)	892A (45C)

TEMPERATURE SPECIFICATIONS

Charge Temperature	0°C to 55°C 32°F to 131°F
Discharge Temperature	-30°C to 55°C -22°F to 131°F
Storage Temperature	-40°C to 60°C -40°F to 140°F

COMPLIANCE SPECIFICATIONS

Certifications	CE, UKCA, UN 38.3, UL 1642 (Cells)
Shipping Classification	UN3480

GENERAL PRODUCT SPECIFICATIONS

EAN-13	8718531360051
Battery Designation	4IFpR27/66-8

PERFORMANCE



Fast charging



Lightweight



Long and maintenance free lifespan



Compact size



Low self-discharge



High discharge rates



High thermal stability