# DATASHEET
# ANDRENA 12V20Ah-SC

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 3.6 kg / 8.0 lbs, the Andrena 12V20Ah-SC power battery saves up to 80% in weight in comparison to traditional lead-acid batteries and is only 1/3 of the size of a conventional battery. 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 batteries 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 is the safest lithium technology available today. 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) | 249 x 96 x 141mm<br>9.80" x 3.78" x 5.55" |
| Weight | 3.6 kg / 8.0 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<br>32°F to 131°F |
| Discharge Temperature | -30°C to 55°C<br>-22°F to 131°F |
| Storage Temperature | -40°C to 60°C<br>-40°F to 140°F |

## COMPLIANCE SPECIFICATIONS

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

## GENERAL PRODUCT SPECIFICATIONS

| | |
|---|---|
| EAN-13 | 8718531360075 |
| Battery Designation | 4IFpR27/66-8 |

## PERFORMANCE

- Fast charging
- Lightweight
- Long and maintenance free lifespan
- Compact size
- Low self-discharge
- High discharge rates
- Safest Lithium Iron Phosphate Technology