

Safety

super B batteries are based on Lithium Iron Phosphate technology (LiFePO₄). This so called Lithium Ion technology as used in the **super B** batteries is the safest Lithium Ion technology today. On top of that our specially designed casing and electronics further increase safety and durability.

Capacity

super B 5200 refers to 5.2 Ah (Amps/Hour), which represents the real nominal capacity under maximum continuous load. How different this is from lead / acid batteries where manufactures provide a 20 hour rating. For example the 10 Ah lead / acid batterie can be discharged over a period of 20 hours with a 0.5 Amp load. This is not very practical, as the same 10 Ah battery discharged with a 2,5 Amp load, for example a 25 Watt light bulb, will yield no more than 2.2 Ah of energy. The lead-acid battery, therefore, has less capacity when the load increases, which means that you can start more often with the **super B**.

Starting Current

We use a 10-second rating instead of CCA for the **super B 5200** battery. The 10-second rating is easy to understand: it represents the amount of current a battery can produce during 10 seconds without being damaged. The **super B 5200** can deliver a current of 300 Amps during 10 seconds. The batteries can deliver higher currents for shorter periods and lower currents for longer periods.

Charging

The **super B 5200** battery can be charged with almost all motorbikes, up to a maximum of 14.4 Volts. Do not overcharge, as this will damage the battery. The **super B** charges much faster than conventional batteries: charging a lead- acid battery takes 7 to 14 hours, during which the internal resistance increases and the charge current decreases. The **super B 5200** can be charged within 1 hour at a charge current of 6 Amps. If the charge current is increased to 12 Amps, it will charge in 30 minutes. Do not charge the battery with more than 20 Amps as this will damage the battery.

Charger

We recommend to use the appropriate **super B** charger to charge **super B** batteries. Do not use a lead-acid charger, as these chargers are optimized for a different battery technology and make use of methods for charging and safeguarding which are unsuitable for **super B** batteries.

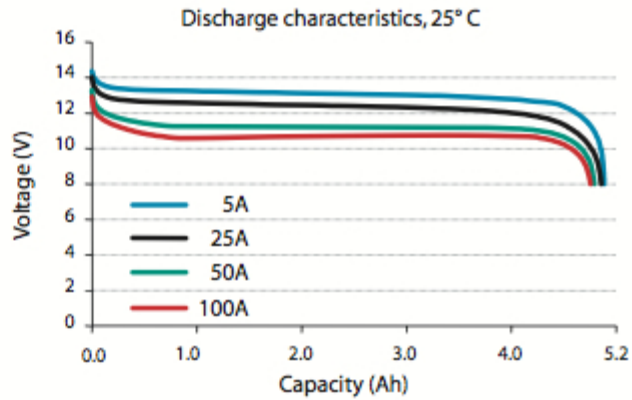
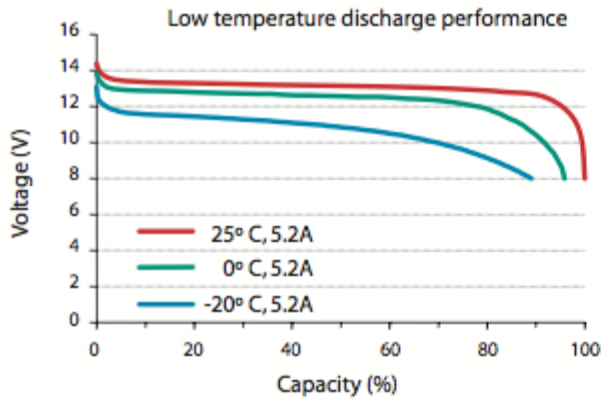
Lifespan

Over 5 years.

Connecting the battery

The **super B 5200** battery is designed with M6 screw terminals, this makes it easy to replace the stock lead-acid battery. The **super B 5200** battery is shipped with two M6 bolts and plastic end caps to fit to the wires on the bike

Discharge



Self-discharge

As **super B** batteries have a very low self-discharge rate, the batteries will last for several years in storage.

F.I.M. / Stock Racing

The F.I.M. modified the regulations for stock racing regarding battery use.

Article 2.7.9.5 Battery:

The Battery may be replaced. If replaced, its nominal capacity must be equal to or higher than the Homologated type. The F.I.M. has approved the **super B** battery for use as replacement battery.

Technical specifications

Nominal capacity and voltage	5200 mAh, 13.2 V
EqPb (Equals lead acid battery)	10 to 12Ah
Recommended standard charge method	7A to 14.4 CCCV, 45 min
Recommended fast charge current	20A to 14.4 CCCV, 15 min
Maximum continuous discharge	100A
Pulse discharge	300A
Recommended charge and cut-off V at 25°C	14.4V to 8V
Recommended charge and cut-off V below 0°C	15.2V to 2V
Operating temperature range	-22°F to +140°F / -30°C to +60°C
Storage temperature range	-58°F to +140°F / -50°C to +60°C
Battery weight	1.98 lb / 900 grams
Dimensions	4.49 inch, 2.44 inch, 3.19 inch (WxHxD) 114mm x 81.25mm x 62mm (WxHxD)