



Sunnytek Solar Sweden

Max-Power lithium battery packs

Max-Power battery system is a new smart solution sized like a car battery and with car battery charging characteristics but it is a Lithium battery inside. The unit have Lithium cells combined with a smart battery management system and controller for all to work with years with no problems. 3 sizes of 100-200 AH capacity at 12 volt covers most applications. The Lithium can be deep cycled and handle high temperatures so in most cases we replace a 200AH-400AH Lead Gel battery. Life time is far better and deep cycle is not any problems with this battery. In tropical application it can operate to 85C in temperature so here we offer the perfect system for solar farms and back ups in tropical areas.



Max-Power characteristics

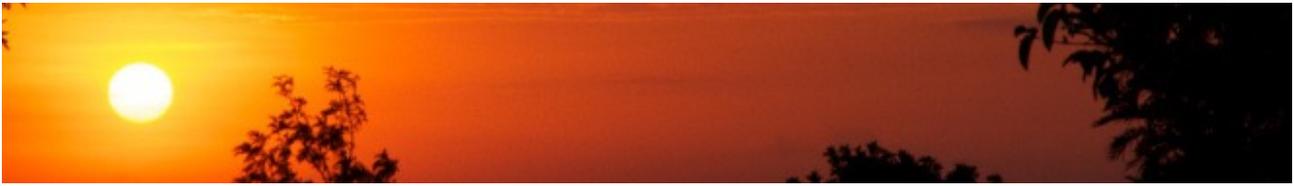
- * Acts like a standard 12 volt car battery but inside we have a lithium battery and BMS system. Charged with lead charger OK.
- * 3 models of 12 volt and 100 / 150 and 200 AH capacity.
- * Deep cycle to 90-95% of capacity with no life reduction and you can typically save 50% of capacity compared to a lead Gel battery.
- * Operating temperatures from - 40C to + 85C
- * Unique life time in warm areas when charged at 30-40 C in temperature from solar panels day time.
- * Weight efficiency low 7AH / Kg 100AH = 14 kg light
- * Charging time 90% can be only 1 hour short
- * Life time upon to 2000 cycles at 80 % cycle depth
- * LiFe-Po battery technology with good stability and no problems like some other Lithium may have.
- * 100 AH weight 13.8 kg 150 AH weight 22 kg 200 AH weight 27.5 Kg . Lead is far heavier and and can not be 90% deep cycled.
- * High current output and no damage when battery is empty. No sulphate problems like lead battery technology. BMS protect battery to problems.
- * Reasonable price and when deep cycle included Max-Power is often cheaper to operate than lead battery can offer.
- * Made in Scandinavia by highest quality components
- * BMS accepts battery to be used in parallel with lead battery packs and other battery units.



Sunnytek offers this battery as a good solution for our solar systems and back up solutions. Here we finally have a good alternative to lead battery systems that is cheaper in costs during its life cycle and is a no problem solution. As many installations are in tropical areas the high ambient temperature operation and charging is essential. Life time depends a lot on temperature and deep cycling and here is the future solution.

Best of all is an affordable price so many can use it as standard battery.

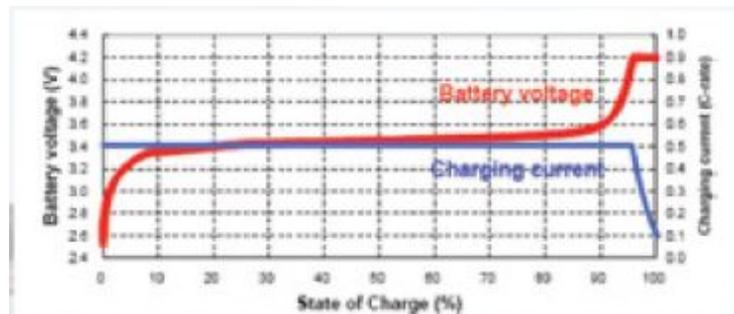
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Specifications and information

100AH	Weight 13,8 kg Width 173 mm Length 342 mm Height 212 mm
150 AH	Weight 22.2 kg Width 170 mm Length 480 mm Height 235 mm
200 AH	Weight 27.5 kg Width 233 mm Length 521 mm Height 220 mm



For all units

Energy content	7 ampere hours / kg
Charge time 1C	1 hour
Life time 80% capacity	1500-2000 Cycles
Cell voltage	3.8 volt
Operating temperature	-40C to + 85 C
Charging voltage	14.2-14.4 volt for a 12 volt battery unit.
Peak current	150A / 12 volt



Battery box have BMS battery management systems inside the sealed unit. This makes battery to act like a lead battery so exchange is very simple in old system as all works directly. BMS system control and protect battery to damage and bad handling. The +85C operation makes battery very good in warm areas where other battery units will suffer hard. Other lithium battery are often rated max 60C so this is much better. Solar lamps are a very hot place where this can be the solution.