

Product Data Sheet

AL12105F

Technical Information

The ALLiON AL12105F Lithium-ion battery is a high performing 12V Deep Cycle battery with a capacity of 105 Amp Hours (Ah). Suitable for RV & leisure applications the ALLiON range of Lithium-Ion batteries are much lighter than comparable lead acid batteries and can last up to 4 times as long. They are also safe to use thanks to the integrated battery management system.

Features and Benefits

- Up to 4x longer life than comparable lead acid batteries
- More usable capacity & greater efficiency
- Lightweight
- Faster recharging



Applications

RV, Caravan & Leisure
Industrial Equipment
Solar

Characteristic		Specification	
2.1	Nominal capacity	105Ah	
2.2	Nominal energy	1.382kWh	
2.3	Nominal voltage	12.8V (LFP - 4S4P)	
2.4	Internal impedance	≤20mΩ @1kHz AC	
2.5	Nominal charge voltage	14.6 ±0.5V	
2.6	Float charge voltage (for Standby use)	13.8 ±0.2V	
2.7	Maximum allowed charge current	100A @ initial temperature 25°C ±5°C	
2.8	Recommended charge current	≤50A	
2.9	Maximum allowed discharge current	100A @ initial temperature 25°C ±5°C	
2.10	Discharge cut-off voltage	9.6 - 11V	
2.11	Dimensions (L x W x H); ±3mm	307mm x 169mm x 211mm	
2.12	Nominal weight	12.5kg	
2.13	Operation Temperature	Charge	0°C to +45°C
		Discharge	-20°C to +60°C
2.14	Self-discharge rate	Residual capacity	≤3% /month, ≤15% /year
		Recover capacity	≤1.5% /month, ≤8% /year
2.15	Storage environment	≤1month	-20°C to +60°C; 5% to 75%RH
		≥3month	-10°C to +45°C; 5% to 75%RH
		Recommended	+15°C to +35°C; 5 to 75%RH
2.16	Bluetooth Connectivity	No	
2.17	Parallel connection of up to 4 batteries is supported by the individual battery BMS. For series connection, up to 4 batteries can also be connected but CAUTION must be taken. Individual battery voltages must all be kept within a 0.2V range, and the minimum voltage must be limited to 11.5V. Combinations of parallel and series connection are not supported. Failure to comply may void warranty.		