



LEOCH BATTERY PTE LTD
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Co. Reg. No. 201007080Z

DECLARATION

27th Mar. 2025

To: CIAK d.o.o

WHEREAS

We hereby declare that Leoch Battery Pte Ltd is able to produce customized batteries based on the projects needs, LFP12120C is the case that we make specially for your project, which can meet the below technical parameters.

Nominal voltage 12.8V;

Nominal energy min. 300 Wh in discharge mode with a current of 24A up to a voltage of 10.0 V at a temperature of 25 °C;

Max. length 335 mm Max. width 175 mm Max. height with poles 225 mm

Max. mass 16 kg Housing ABS plastic

LI FE PO4 production technology with 3.2 V battery and protective circuit

Internal resistance of a full battery at 25 °C - 10 mohm

Connection poles M8 countersunk screw

Permissible ambient operating temperature -10 to +60 °C

Charging/maintenance voltage in standby mode 13.6-13.8 V

Charge/sustain voltage in cyclic mode 14.4-14.6V

Lifetime in standby mode at 25 °C 10 years

Lifetime in cyclic mode at 25 °C, min. 2,000 cycles at 0.5C discharge and 80% DOD up to a voltage of 10.0V

Maximum discharge current 100 A at 25 °C

Maximum continuous discharge current 80 A at 25 °C

Technical data of the protective circuit:

The overvoltage protection of each article turns on at 3.72 to 3.78 V

The overvoltage protection of each article turns off at 3.55 to 3.65 V

The undervoltage protection of each article is activated at 2.45 to 2.55 V

The undervoltage protection of each article switches off at 2.70 to 2.9 V

Overcurrent protection during charging is activated at 120 A for 5 seconds

Discharge overcurrent protection switches on at 300 A for 50 milliseconds Discharge overcurrent protection

switches off by disconnecting the load or starting charging High ambient temperature protection switches on at

65 to 75 °C

Protection against high ambient temperatures is switched off at 50 to 60 °C

Protection against low ambient temperatures is activated at -5 to -15 °C

Protection against low ambient temperatures is switched off at -5 to +5 °C

Short circuit protection connection is switched on at 1200 A for 50 microseconds

Short circuit protection is switched off by disconnecting the consumer

UN 38.3 certificate will be issued by the time of the shipment

Yours sincerely

LEOCH BATTERY PTE LTD

