

TYVA ENERGIE Group has developed a new generation of batteries, TYVA MODULOO's modular solutions breaks new ground in the way Li-ion batteries are assembled with its ready-to-use 3D modules.

This new, innovative process makes it easier to make and implement Li-ion batteries.

3D Modular

TYVA MODULOO's products represent a new generation of batteries. They make it possible to quickly and economically build Li-ion batteries in the three dimensions. This flexibility allows for serial and parallel assemblies without any development or certification costs.



Power and Energy range

In the same module, TYVA MODULOO offers high-density batteries (180 Wh/Kg) as well as power batteries with permanently high discharge rates (up to 15 C). Thanks to our multi-chemistry internal modular platform, we can integrate all the chemistries on the market: LFP, NMC, LMO, Ni-Rich and NCA.

Eco-friendly

TYVA MODULOO breaks new ground by offering Li-ion batteries with interchangeable electro-chemical elements, ensuring that the other battery components can be reused several times. TYVA MODULOO therefore reduces the carbon footprint of Li-ion batteries. Furthermore, our customers make the most of the technological developments in electro-chemical cells (increased capacity and life-span).

Made in France

Our batteries are made in France on 2 production sites located in the Drôme/Ardèche area, about 70 kilometers south of Lyon .

80% of TYVA MODULOO's components are supplied less than 60 minutes from the production sites.

By producing in France and using modular design, we guarantee our customers delivery times of no more than a week at a competitive price.

Main features

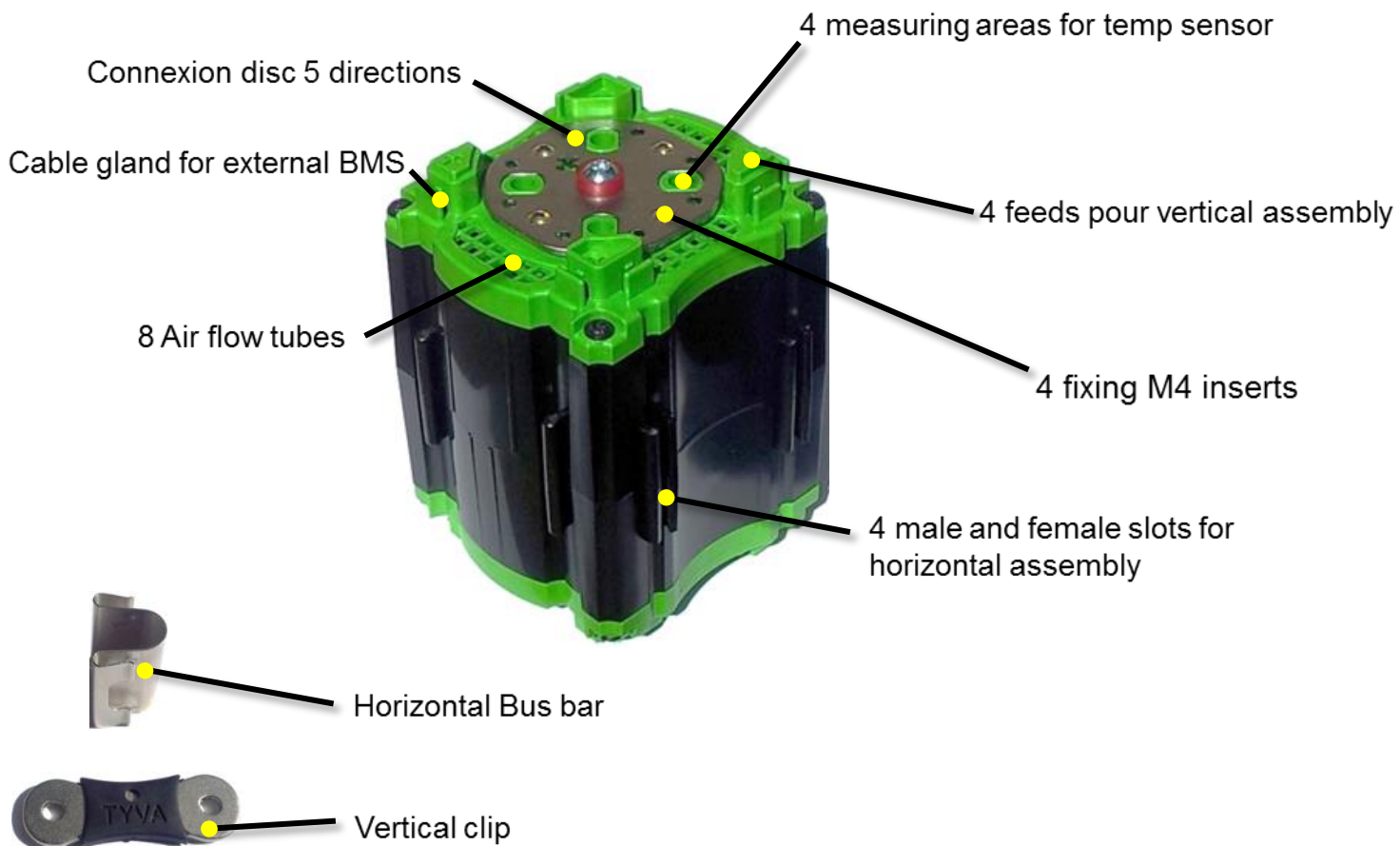
Nominal voltage	3.2 à 14.8 V
Nominal capacity	8.8 à 27 Ah
Energie	28 à 97 Wh
Weight	490 à 540 g
Dimensions	75 x 75 x 106 mm
Working Temperature	-30° à + 70 °C
Box material	Blend ABS UL



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TYVA MODULOO advantages

- ✓ 3D Modular Li-ion battery
- ✓ Multi-chemistry Platform: LFP, NMC, NCA, LMO, LTO
- ✓ Power and energy products range
- ✓ Safe construction
- ✓ OEM et ODM applications
- ✓ Fast and affordable construction
- ✓ No development and certifications fees
- ✓ Easy mechanical assembly with Bus bar
- ✓ Air flow management built-in
- ✓ Eco-friendly battery
- ✓ 18650 cells integration
- ✓ Cells replacement capability
- ✓ Made in France



TYVA MODULOO applications



Robots



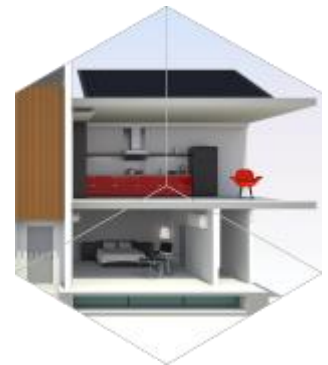
Mobile
Equipments



Outdoor lighting



Electric mobility











Home storage

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TYVA Moduloo PRODUCTS

TYVA Part Number	Nominal voltage	Nominal capacity	Max Weight	Discharge current max	Charging Current max	AC Impedance AC mΩ	Chemistry	Cycles Nbr
								
ENERGIE RANGE								
FE0312OL	3.2 V	12 Ah	500	30 A	24 A	6.5	LFP	>2000
FE0314LN	3.2 V	13.6 Ah	500	30 A	25 A	6	LFP	>1500
ME0323SG	3.65 V	23.2 Ah	540	30 A	10 A	3.5	NCA	>700
ME0323PC	3.7 V	23.2 Ah	540	30 A	10 A	3.5	NCA	>700
ME0327PC	3.6 V	27 Ah	540	35 A	10 A	9	LMO	>500
FE1203LN	13.2 V	3.4 Ah	510	7 A	7 A	88	LFP	>1500
ME1206PC	14.8 V	5.8 Ah	560	10 A	2.9 A	-	NCA	>700
POWER RANGE								
MP0317SG	3.6 V	17 Ah	540	35 A	17 A	4.5	NMC	>700
MP0317LM	3.6 V	17 Ah	540	35 A	17 A	4.5	NMC	>1000
FP1202OL	13.2 V	2.2 Ah	510	25 / 50 A ¹	10 A	40	LFP	>3000
FP1202LN	13.2 V	2.2 Ah	510	25 / 50 A ¹	10 A	50	LFP	>3000
HIGH POWER RANGE								
FP0380OL	3.3 V	8.8 Ah	500	90 / 240 A ²	40 A	2.5	LFP	>3000
FP0380LN	3.3 V	8.8 Ah	500	90 / 240 A ²	40 A	2.7	LFP	> 3000
MP0320LM	3.6 V	20 Ah	540	50 / 240 A ²	32 A	2.7	Ni-Rich	>700

Nota :

- 1 : Pulse of 50 A during 1 s maximum
 2 : Pulse of 240 A during 10 s maximum


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