

Self-powered refrigerated container KOALA GREEN 1300

27/01/2025
Rev.1



Koala Green refrigerated containers are powered by a LiFePO4 battery, making them completely autonomous and independent of a vehicle. The removable battery can be recharged by connecting the Koala Green to the mains power (230V) or with the external charger after removing it from the refrigeration unit.

- Brand: MELFORM
- Country of origin: ITALY
- Commodity code: 84181080
- ATP Certificate
- Compatible with food contact
- Colour: grey/blue
- Power supply and charging at 230Vac
- Technology: rotational moulding
- Warranty: 24 months
- Fully recyclable at the end of its operational life
- Available in version on wheels. Basic and on feet versions are available on request
- Available with **150Ah** LiFePO4 battery

MANUFACTURING MATERIALS

Polyethylene	internal and external walls of the container and door; Suitable for food contact	Polyurethane	CFC- and HCFC-free insulating material between the container and door walls
Silicone rubber	gasket	Rubber and polyamide	wheels (rubber tread and polyamide core)
Galvanized steel	crankcase, hinge rods, hinge rod connection plates, support wheels	Stainless steel	Handling handles, closing handle, internal door rod
Polypropylene	Hinges		


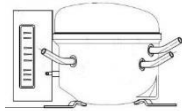










Via Savigliano 34 - 12030 Monasterolo di Savigliano (CN) - ITALY
Tel. +39 0172812600 - info@melform.com
www.melform.com

Model	Code product	EAN code	External dimensions (mm)	Internal dimensions (mm)	Capacity (litres)	Weight (Kg)
Top cooling unit, ventilated 0 °C to +10°C 150Ah battery Version with wheels	K1300AFTVDYM1D	8022949224998	985X1405Xh1925	810x1210xh1140	1115	200
Cooling unit on top ventilated 0°C to +40°C 150Ah battery Version with wheels	K1300AFTVDZM1D	8022949225001				

Code	Ambient Temp. (°C)	Temp. Set Point (°C)	Battery life (h)
Koala Green 1300 0° C to +10°C	30	0	11
Koala Green 1300 0° C to +40°C			

REFRIGERATION UNIT FEATURES

	The ventilation system ensures a higher speed of reaching and uniformity of temperature inside the container		Hermetic compressor with electronic regulation and control unit equipped with surge protection
	Guaranteed refrigeration unit performance for ambient T-use: +10°C to +30°C Container (isothermal body) guaranteed for use: -30°C to +100°C		Cable for 230Vac 50-60Hz power supply (standard equipment)
	The battery indicator displays: <ul style="list-style-type: none"> • Battery Voltage (V) • Current (A) Input/Output • Power (W) Input/Output • Ampere hours (Ah) consumed • State of charge (%) • Remaining autonomy (h) 		LiFePO4 battery with overcharge and deep discharge protection. Guaranteed for 2000 cycles with <u>≥80% charge holding capacity</u>
	Temperature regulation and control with programmable digital thermostat		Removable battery for easy replacement and charging via special external power supply Battery storage limit temperature: -20°C / +60°C
	USB datalogger available (optional) to record temperature data during transport		EVlink module with bluetooth interface available on request

Degree of accuracy: **+/-0.5°C**

Refrigerant gas: **R452a**

Rated power consumption: **1A**

Fuse: **4A**




Global heat transfer coefficient: **K= 0.34W/m²K**

Charging time battery life: **about 8/10h**



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PRODUCT FEATURES

	Equipped with 4 rubber wheels with a diameter of 125 mm (2 fixed and 2 swivel, one of which is equipped with brake). Wheel support plate integrated into the body.		Available in version with 6 galvanized steel feet h 120mm
	Stainless steel closing handle with release button; prepared for the use of an anti-tampering system		Easily removable door sealing gasket
	Card holder available on request for identification of the content or destination. Suitable for A5 documents		Double pivot hinge system. Improved door stability over time
	Door can be opened up to 270° with flap door stop		Stainless steel rod with 2 hooks, integrated inside the door
	Monobloc structure, without edges, joints and welds		Internal grooves to allow good air circulation

ACCESSORIES	Amperage	Weight (Kg)	Dim. (mm)	Code
Card holder in plastic			A5	RRI141
Dip tray pallet				ANA00101
USB Data Logger temperature range -30°C +70°C				AFG007
Battery charger	20 Ah	1,5		CHARGER20A
Battery KOALA GREEN	150 Ah	17		BATT150AH
Battery with charger for KOALA GREEN	150 Ah			BACH150AH