

Self powered refrigerated container KOALA GREEN 500

18/06/2024
Rev.1



ATP



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

- Brand: MELFORM
- Country of origin: ITALY
- Customs code: 84181080
- ATP Certificate
- Compatible with food contact
- Colour: melange 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. Optionally available in basic version, on pallets or feet
- Available with 120Ah **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, wheel support	Stainless steel	handling handles, closing handle, rod door interior
Polypropylene	Hinges		











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Model	Product code	EAN code	External dimensions (mm)	Internal dimensions (mm)	Capacity (litres)	Weight (Kg)
Cooling unit on top ventilated 0°C +10°C 120Ah battery on wheels	K500AFTVDYM1C	8022949223236	715x850xh1915	540x660xh1170	416	140
Cooling unit on top ventilated 0°C +40°C 120Ah battery on wheels	K500AFTVDZM1C	8022949223021				

Model	Ambient Temp. (°C)	Temp. Set Point (°C)	Battery life (h)
Koala Green 500 AF 0°C +10°C	30	0	10
Koala Green 500 AF 0°C +40°C		0	12

REFRIGERATION UNIT FEATURES

	The ventilation system ensures a higher speed of reaching and uniformity of temperature inside the container		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
	EVlink module with bluetooth interface available on request		Guaranteed refrigeration unit performance for ambient T-use: +10°C to +30°C Container (isothermal body) guaranteed for use: -30° to +100°C

Degree of accuracy: **+/-0.5°C**

Refrigerant gas: **R134a**

Rated Power Consumption: **1A**

Fuse: **4A**

Global heat transfer coefficient: **K=0.32 W/m2K**

Charging time battery life: **approx. 8/10h**



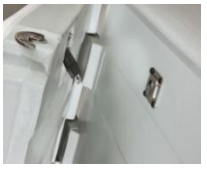







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PRODUCT FEATURES

	1 seat for housing the grid positioned 60 cm from the bottom of the container. Grid available on request		Stainless steel rod with 2 hooks integrated inside the door
	Door can be opened up to 270° with latch – flap door		Stainless steel closing handle with release button; prepared for the use of an anti-tampering system
	Equipped with 4 rubber wheels with a diameter of 100mm (2 fixed and 2 swivel, one of which is equipped with brake) Wheel support plate integrated into the enclosure		Easily removable door sealing gasket
	Also available in the following versions: <ul style="list-style-type: none"> • BASIC • Pallet with galvanized steel frame at 4 feet of h 120mm • 4 galvanized steel feet h 130mm 		RFID systems for traceability

ACCESSORIES	Code	Dimensions (mm)	Weight (kg)
Card holder dim. A5 in transparent plastic	RRI141	173xh200	
Stainless steel grid	AEA008	650x550xh16	3
Plastic folding grid	PAPE0001	535x594xh20	1,1
120Ah Auxiliary Battery	BATT120AH		14.5
Battery charger for 20Ah auxiliary battery	CHARGER20A		1.5
USB data logger -30°C+70°C	AFG007	80x33xh14	