Self powered refrigerated container KOALA GREEN 500

HACCP · 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: 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		

Model	Product code	EAN code	External dimensions (mm)	Internal dimensions (mm)	Capacity (litres)	Weight (Kg)
Top cooling unit, ventilated 0°C +10°C 120Ah battery Version with wheels	K500AFTVDYM1C	8022949223236	715x850xh1915	540x660xh1170	416	140
Top cooling unit, ventilated 0°C +40°C 120Ah battery Version with 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**			
Koala Green 500 AF **0°C +40°C**	0	40	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:
- 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 >80% charge holding capacity

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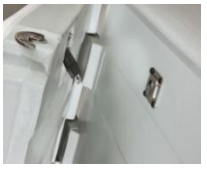
Charging time battery life: **approx. 8/10 h**

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 open 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: • BASIC • Pallet with galvanized steel frame at 4 feet of h 120mm • 4 galvanized steel feet h 130mm		RFID systems for traceability

ACCESSORIES	Amperage	Weight (kg)	Dim. (mm)	Code
Stainless steel grid		3	550x650xh16	AEA008
Plastic folding grid		1,1	535x594xh20	PAPE0001
Plastic card holder			A5	RRI141
Floor/vehicle fixing kit for Basic version		2		RRI222
USB Data Logger, temperature range -30°C +70°C				AFG007
Battery charger	20 Ah			CHARGER20A
Battery KOALA GREEN	120 Ah			BATT120AH
Battery with charger for KOALA GREEN	120 Ah			BACH120AH