

Self powered refrigerated container KOALA GREEN 600

05/07/2024 - Rev.0



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
- 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 basic and on wheels versions. Version on feet, available on request
- Available with 120Ah or 150Ah **LiFePO4 battery** depending on models

MANUFACTURING MATERIALS

Polyethylene	internal and external walls of the container and door; Suitable for food contact	Polyurethane	insulating material between the walls of the container and the door, free of CFC and HCFC
Silicone rubber	gasket	Rubber and polyamide	wheels (rubber tread and polyamide core)
Galvanized steel	Crankcase, wheel support	Stainless steel	closing handle, rod door interior



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Model	Code product	Code EAN	External dimensions (mm)	Internal dimensions (mm)	Capacity (litres)	Weight (Kg)
Cooling unit integrated static 0°C+10°C 120Ah battery BASIC	K600AFISDYM0C	8022949223076	1050x1400xh1000		600	138
Cooling unit integrated static 0°C+40°C 120Ah battery BASIC	K600AFISDZM0C	8022949223113				
Cooling unit integrated static -25°C+10°C 150Ah battery BASIC	K600AFISBYM0D	8022949223816				
Cooling unit integrated static -25°C+40°C 150Ah battery BASIC	K600AFISBZM0D	8022949223823				
Cooling unit integrated static 0°C+10°C 120Ah battery on wheels	K600AFISDYM1C	8022949223083	1050x1400xh1165	965x810xh76 5	600	142
Cooling unit integrated static 0°C+40°C 120Ah battery on wheels	K600AFISDZM1C	8022949222994				
Cooling unit integrated static -25°C+10°C 150Ah battery on wheels	K600AFISBYM1D	8022949223793				
Cooling unit integrated static -25°C+40°C 150Ah battery on wheels	K600AFISBZM1D	8022949217662				









Model	Ambient Temp. (°C)	Temp. Set Point (°C)	Battery life (h)
Koala Green 600 AF 0°C+10°C	30	0	24
Koala Green 600 AF 0°C+40°C			
Koala Green 600 AF -25°C+10°C	25	-25	13
Koala Green 600 AF -25°C+40°C			
Koala Green 600 AF 0°C+40°C	0	40	10
Koala Green 600 AF -25°C+40°C	0	40	15



REFRIGERATION UNIT FEATURES

	Refrigeration unit equipped with a static "roll-bond" evaporator		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° to +100°C		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)		100Ah 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		USB datalogger available (optional) to record temperature data during transport
<p>Degree of accuracy: +/-0.5°C Refrigerant gas: R134a Nominal absorption: 1.3A Fuse: 4A Global heat transfer coefficient: K=0.32 W/m2K Charging time battery life: approx. 8/10h</p>			

PRODUCT FEATURES

	Stainless steel closing handle with release button; prepared for the use of an anti-tampering system		Stainless steel rod with 2 hooks integrated in the door
	Monobloc structure, without edges, joints and welds		3 housing seats of grids positioned at 240/410/595mm from the bottom of the container.
	Easily removable door sealing gasket		Version on wheels equipped with 4 rubber wheels with a diameter of 125mm (2 fixed and 2 swivel, one of which is equipped with brake) Wheel support plate integrated into the enclosure
	Also available in version with 4 galvanized steel feet h 100mm		RFID systems for traceability

ACCESSORIES	Code	Dimensions (mm)	Weight (kg)
Card holder dim. A5 in transparent plastic	RRI141	173xh200	
Stainless steel grid	AEA047	838x950xh16	6
Floor vehicle /container fixing kit	RRI223		3
120Ah Auxiliary Battery	BATT120AH		14.5
150Ah Auxiliary Battery	BATT150AH		17
Battery charger for 20Ah auxiliary battery	CHARGER20A		1.5
USB data logger -30°C+70°C	AFG007	80x33xh14	

