

Self powered refrigerated container KOALA GREEN 600

27/01/2025 - Rev.1



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: 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	Product code	EAN Code	Ext. Dim. (mm)	Int. Dim. (mm)	Capacity (liters)	Wt (Kg)
Cooling unit integrated, static 0°C+10°C battery 120Ah Basic version	K600AFISDYM0C	8022949223076	1050x1400xh1000	810x965x755	600	139
Cooling unit integrated, static 0°C+40°C battery 120Ah Basic version	K600AFISDZM0C	8022949223113		810x965x755	600	142
Cooling unit integrated, ventilated -25°C+10°C battery 150Ah Basic version	K600AFIVBYM0D	8022949229306	1050x1400xh1165	810x965x610	480	147
Cooling unit integrated, ventilated -25°C+40°C battery 150Ah Basic version	K600AFIVBZM0D	8022949227913		810x965x610	480	150
Cooling unit integrated, static 0°C+10°C battery 120Ah Version with castors	K600AFISDYM1C	8022949223083	1050x1400xh1165	810x965x755	600	142
Cooling unit integrated, static 0°C+40°C battery 120Ah Version with castors	K600AFISDZM1C	8022949222994		810x965x755	600	142
Cooling unit integrated, ventilated -25°C+10°C battery 150Ah Version with castors	K600AFIVBYM1D	8022949229382	1050x1400xh1165	810x965x610	480	150
Cooling unit integrated, ventilated -25°C+40°C battery 150Ah Version with castors	K600AFIVBZM1D	8022949227883		810x965x610	480	150




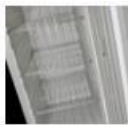




Model	Ambient Temp. (°C)	Temp. Set Point (°C)	Battery life (h)
Koala Green 600 AF 0°C+10°C	30	0	24
Koala Green 600 AF 0°C+40°C			
Koala Green 600 AF -25°C+10°C	25	-25	12
Koala Green 600 AF -25°C+40°C			
Koala Green 600 AF 0°C+40°C	0	40	12
Koala Green 600 AF -25°C+40°C	0	40	16



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 <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		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

ACCESSORI	Amperaggio	Peso (kg)	Dim. (mm)	Codice
Card holder in transparent plastic			A5	RRI141
Stainless steel grid		6	838x950xh16	AEA047
Floor/vehicle container fixing kit (available for Basic version)		3		RRI223
Data logger USB -30°C +70°C				AFG007
Battery charger	20 Ah	1,5		CHARGER20A
Battery KOALA GREEN	120 Ah	14,5		BATT120AH
Battery KOALA GREEN	150 Ah	17		BATT150AH
Battery with charger for KOALA GREEN	120 Ah	16		BACH120AH
Battery with charger for KOALA GREEN	150 Ah	18,5		BACH150AH

