

# 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

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



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




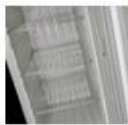




| Model                                | Ambient Temp. (°C) | Temp. Set Point (°C) | Battery life (h) |
|--------------------------------------|--------------------|----------------------|------------------|
| Koala Green 600 AF <b>0°C+10°C</b>   | 30                 | 0                    | 24               |
| Koala Green 600 AF <b>0°C+40°C</b>   |                    |                      |                  |
| Koala Green 600 AF <b>-25°C+10°C</b> | 25                 | -25                  | 12               |
| Koala Green 600 AF <b>-25°C+40°C</b> |                    |                      |                  |
| Koala Green 600 AF <b>0°C+40°C</b>   | 0                  | 40                   | 12               |
| Koala Green 600 AF <b>-25°C+40°C</b> | 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:<br><b>+10°C to +30°C</b><br>Container (isothermal body) guaranteed for use:<br><b>-30° to +100°C</b>                                       |   | Cable for <b>230Vac</b> 50-60Hz power supply<br><br>(standard equipment)   |
|   | The battery indicator displays:<br>• Battery Voltage (V)<br>• Current (A) Input/Output<br>• Power (W) Input/Output<br>• Ampere hours (Ah) consumed<br>• State of charge (%)<br>• Remaining autonomy (h) |   | 100Ah LiFePO4 battery with overcharge and deep discharge protection. Guaranteed for 2000 cycles with <u>&gt;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<br><br>Battery <b>storage limit temperature: -20°C / +60°C</b> |
|    | EVlink module with bluetooth interface available on request   |  | USB datalogger available (optional) to record temperature data during transport  |
| <p>Degree of accuracy: <b>+/-0.5°C</b><br/>                     Refrigerant gas: <b>R134a</b><br/>                     Nominal absorption: <b>1.3A</b><br/>                     Fuse: <b>4A</b><br/>                     Global heat transfer coefficient: <b>K=0.32 W/m²K</b><br/>                     Charging time battery life: <b>approx. 8/10h</b></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  |

