FR Series (100 L)
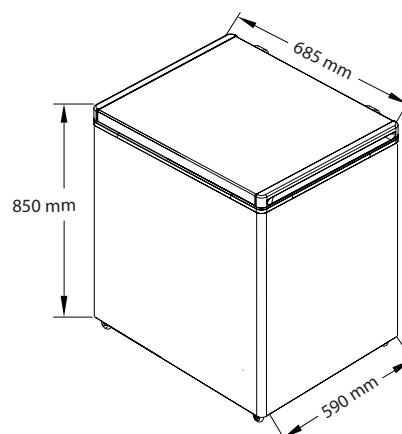## DC Chest Refrigerator

phocos

Technical Drawing

685 mm
850 mm
590 mm

Product Introduction

The Phocos FR100 provides flexibility to our customers, creating a valuable solution for various applications. In the field, this product can be used with 12 V or 24 V batteries, and can operate as a refrigerator or freezer by simply adjusting the thermostat. This DC appliance has powerful cooling and deep-freezing from -18 to +8 °C (-0.4 to +46.4 °F).

The FR100 contains a maintenance-free brushless DC compressor for direct connection to a battery and does not require an inverter to operate. This unit offers a 100 liter storage capacity and is energy-efficient which makes it perfect for solar-powered applications.

Product Features and Functions

- Adjustable thermostat
- Works with both 12/24 V systems (auto recognition)
- No inverter required
- High-efficiency cooling
- Climate-friendly R600a refrigerant
- Aluminum inner lining
- Hanging basket included

Technical Data

Type	FR100
System Voltage	12 / 24 V auto recognition
Temperature Range	-18 to +8 °C / -0.4 to +46.4 °F
Max. Power	70 W
Energy Consumption at 20 °C / 68 °F	108 Wh / day (fridge*), 553 Wh / day (deep-freezer*)
Energy Consumption at 30 °C / 86 °F	181 Wh / day (fridge*), 659 Wh / day (deep-freezer*)
Content (Net Volume)	104 L
Refrigerant	R600a
Ambient Temperature	+10 to +40 °C / +50 to +104 °F Up to +43 °C / +109 °F Down to -16 °C / +3 °F inside temp.
Insulation	90 mm
Door Type	Top opening
Color	White
Cabinet Dimensions (WxHxD)	685 x 590 x 850 mm / 27 x 23.2 x 33.5 in
Inner Dimensions (WxHxD)	505 x 640 x 375 mm (excl. compressor recess of 190 x 210 x 375 mm) / 19.9 x 25.2 x 14.8 in (excl. compressor recess of 7.5 x 8.3 x 14.8 in)
Weight	29 kg / 64 lbs
Warranty	3 years

* Measured at +8 °C / +46.4 °F (fridge) and -18 °C / -0.4 °F (deep-freezer) temperatures.