



Direct-Drive Solar Refrigerator

Avoid battery and charge controller costs with **SunDanzer™** Direct-Drive solar refrigerators. These high efficiency refrigerators are made for direct connection to your solar panel, eliminating the need for expensive deep-cycle batteries, charge controllers, and battery maintenance. As a stand-alone application, the direct-drive solution can provide reliable refrigeration at greatly reduced cost for non-perishable goods. In addition, SunDanzer offers an optional, low-cost thermal storage package for more temperature sensitive storage. These consist of 1.5" thick ice packs custom made to conform to the sidewalls of the chest refrigerator, allowing cool temperatures to be maintained for up to four days without power. SunDanzer is proud to be the first to manufacture a battery-free solar refrigerator designed for the off-grid user. You can expect the same reliable, exacting standards that have made SunDanzer the leading maker of solar refrigerators.

How it works: High quality construction provides excellent reliability and long life. Super-insulated chest-style cabinets feature over 4 inches of polyurethane insulation with powdered-coated galvanized steel exterior and aluminum interior. A zero maintenance, brushless, thermostatically controlled DC compressor with a built in soft start function operates on 12 VDC and connects directly to your solar PV system. A patented low-frost system reduces frost and moisture build-up for low maintenance of the unit. Rugged, custom-made high-density polyethylene ice packs store up to 80 lbs. of thermal storage for up to four days of holdover time.

Applications:

- Remote Homes
- Eco-Resorts
- Remote Stores
- Disaster Preparedness
- Beverage Vending
- Churches & Schools
- Villages
- Cabins
- Micro-enterprises
- Markets
- Farms
- Boats and Marine
- Traveling Vendors
- Missionaries



SunDanzer™ units are manufactured in a highly automated factory by one of the world's leading appliance manufacturers to SunDanzer's stringent standards for quality and efficiency.

Features:

- **Refrigerators run on a single 120W module in most climates!**
- **12 VDC with low voltage disconnect**
- **Environmentally friendly CFC- free refrigerant**
- **Scratch resistant galvanized steel exterior**
- **Easy to clean aluminum interior**
- **Lockable lid with interior light**
- **Patented low-frost system**
- **Automatic control with adjustable thermostat**
- **Baskets for food organization**

Physical & Electrical Specifications

Input Voltage	10 - 45 VDC	Ambient T Range:	10 to 43°C (50 to 109°F)
Panel Voltage	12 V nominal	Refrigerator T Range:	-1 to 9°C (30 to 48°F)
Power (typical-max)	40 - 80W		
Fuse Size:	15 amp	165 Exterior Dim:	93.5W x 66.5D x 87.6H cm 36.8W x 26.2D x 34.5H in

<u>Part No.</u>	<u>Description</u>	<u>Capacity</u>	<u>Shipping Dimensions</u>	<u>Shipping Weight</u>
DDR165	Direct-Drive Refrigerator	165 L	102W x 76D x 94H cm	56.7 kg
		5.8 ft ³	40W x 30D x 38H in	125 lbs
TSP154	Thermal Storage Pack	36.3 kg	76W x 76D x 15H cm	4.5 kg
		80 lbs	30W x 30D x 6H in	10 lbs