

DC Refrigerators and Freezers

Energy Efficient Refrigeration

Save on costs with our efficient DC refrigerators and freezers. These high efficiency refrigerators and freezers have exceptionally low energy consumption requiring smaller, less expensive power systems and low operating expense.

High quality construction provides excellent reliability and long life. Super-insulated cabinets feature 11cm of polyurethane insulation with powdered-coated galvanized steel exterior and aluminum interior. A zero maintenance, brushless, thermostatically controlled DC compressor operates on 12 or 24 VDC. A patented low-frost system reduces frost and moisture build-up for low maintenance. These chest-style refrigerators and freezers are easy to clean using the drain hole at the bottom of the unit.

With thick insulation and a refrigeration system optimized for solar, our DC refrigerators and freezers provide outstanding economical and reliable operation.

Low energy consumption is the key that allows our DC refrigerators and freezers to be cost effectively powered from solar, wind, fuel cells or batteries. This technology allows refrigeration in remote locations where it was previously unavailable or prohibitively expensive.

Applications:

- | | |
|-------------------------|---------------------|
| • Remote homes | • Cabins |
| • Eco-Resorts | • Medical Clinics |
| • Remote Stores | • Markets |
| • Disaster Preparedness | • Farms |
| • Beverage Vending | • Boats and Marine |
| • Churches & Schools | • Traveling Vendors |
| • Villages | • Missionaries |
| • Ice Making | • Micro-enterprises |



Our DC units are manufactured in a highly automated factory by one of the worlds leading appliance manufacturers to Very stringent standards for quality and efficiency.

Features:

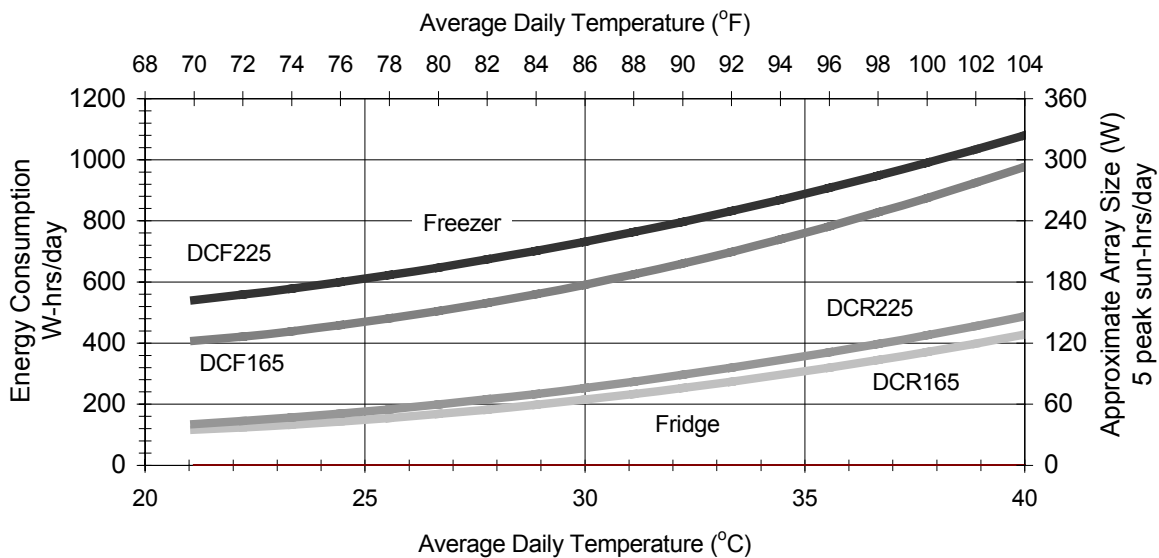
- **Runs on a single 75W module in most climates!**
- **12 or 24 VDC with low voltage disconnect for battery protection**
- **Environmentally friendly CFC-free refrigerant (R-134a)**
- **Rugged scratch resistant galvanized steel exterior**
- **Easy to clean aluminum interior**
- **Lockable lid with interior light**
- **Patented low-frost system**
- **Automatic control with adjustable thermostat**
- **Baskets for food organization**

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Daily Energy Consumption - Standard Test Conditions* 12VDC			
Model	21.1°C (70°F)	32.2°C (90°F)	43.3°C (110°F)
STR165	77Whrs / 6.5AH**	168Whrs / 14AH	348Whrs / 29AH
STR225	90Whrs / 7.5AH	198Whrs / 17AH	393Whrs / 33AH
STF165	272Whrs / 23AH	441Whrs / 37AH	766Whrs / 64AH
STF225	360Whrs / 30AH	532Whrs / 44AH	817Whrs / 68AH

*Standard Test Conditions: No door openings, refrigerator 3°C (38°F), freezer -12°C (+10°F).

Energy Consumption-Typical Residential Use Pattern*



* Estimated energy consumption; residential application assuming average door openings and change of contents. Performance can vary significantly with different use patterns. Approximate array size assumes a typical solar day, 5kwh/m² POA insolation, and PV system efficiency of 70% of manufacturers nameplate rating. NOTE ENERGY CONSUMPTION AND ARRAY PERFORMANCE CAN VARY ON LOCATION AND APPLICATION.; CONTACT YOUR REPRESENTATIVE FOR ASSISTANCE IN SYSTEM SIZING FOR YOUR SPECIFIC APPLICATION!

Physical & Electrical Specifications

Input Voltage	10.4-17VDC (12V) 22.8-31.5VDC (24V)	*Refrigerator T Range: -1 to 9°C (30 to 48°F) *Freezer T Range: -18 to -5°C (0 to 23°F)
Power (typical-max)	40 - 80W	165 Exterior Dim: 93.5W x 66.5D x 87.6H cm
Fuse Size:	15A @12V 7.5A @24V	36.8W x 26.2D x 34.5H in
Ambient T Range:	10 to 43°C (50 to 109°F)	225 Exterior Dim: 119W x 66.5D x 87.6H cm 46.9W x 26.2D x 34.5H in

Part No.	Description	Capacity	Shipping Dimensions	Shipping Weight
STR165	DC Refrigerator	165 L 5.8 ft ³	102W x 76D x 94H cm 40W x 30D x 37H in	54.4 kg 120 lbs
STR225	DC Refrigerator	225 L 8.0 ft ³	127W x 76D x 94H cm 50W x 30D x 38H in	63.5 kg 140 lbs
STF165	DC Freezer	165 L 5.8 ft ³	102W x 76D x 94H cm 40W x 30D x 37H in	54.4 kg 120 lbs
STF225	DC Freezer	225 L 8.0 ft ³	127W x 76D x 94H cm 50W x 30D x 38H in	63.5 kg 140 lbs