



**SF50E SOLAR FRIDGE (50L)**

- Low energy consumption
- 50 L net interior volume
- Rugged powder coated cabinet
- Especially designed for use in solar systems
- Solid-state cooling technology

The SF50E is a new type of refrigerator especially created for the use in photovoltaic solar systems. Due to its good insulation, a new type of solid-state semiconductor cooling device and an advanced electronic regulation it has a very low power consumption.

Because it is not a compressor-type cooling system, the SF50E produces almost no noise. The internal electronics switches automatically to a special "Power Mode" as soon as the battery has reached a high state of charge. Therefore  $\frac{3}{4}$  of energy is consumed during excess energy periods in solar systems.

The SF50E can be operated on a 60 to 80 Watt solar module, depending on location of use.

This refrigerator has a sophisticated microprocessor control unit which allows excess energy use if the fridge is connected to a CR10LC, CR20LC or CR30LC regulator. The SF50E consumes more energy during daytime to reduce nighttime energy consumption.

This leads to a better utilization of solar energy and the possibility to use smaller batteries. Two interior temperatures can be selected.

	SF50E
Voltage	11 - 15 V, 22 - 30 V
Max. supply current	3,5 A (12 V), 2,5 A (24 V)
Capacity	50 Liters
Dimensions (h x w x d)	46 x 63,5 x 50 cm
Interior temperature	8 and 11 °C selectable
Energy management	Battery voltage or control input
Power consumption per day (11 °C interior)	90 Wh at 20°C 250 Wh at 25°C 800 Wh at 30°C

For system sizing ie number of panels, batteries etc contact us at [info@fortunecp.co.uk](mailto:info@fortunecp.co.uk)