

Solar Socket

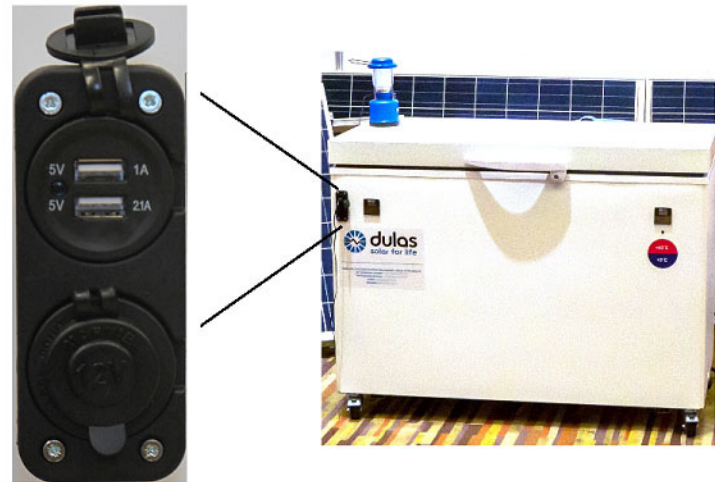
Access extra energy from your Dulas Solar Direct Drive vaccine refrigerator

Charge phones and electrical devices from your Dulas Solar Direct Drive (SDD) refrigerator, with absolutely no impact on the vaccine storage performance of the refrigerator.

The Dulas Solar Socket allows you to make the most of your vaccine refrigerator's photovoltaic array by accessing energy not needed by the refrigerator. Our intelligent control system continuously varies the amount of energy available to the socket, at all times prioritising vaccine storage, but still giving up to 100W of useful power.

The Dulas Solar Socket is the first step towards solarising remote health centres: providing the power to charge phones and other electrical devices. Using a Solar Socket harvests a similar amount of energy as installing a 200Wp solar power system.

Built into the refrigerator and completely automatic in operation the control system automatically senses when excess energy is available and turns the Solar Socket on. Should the solar output drop, the Solar Socket is turned off to keep the refrigerator running.



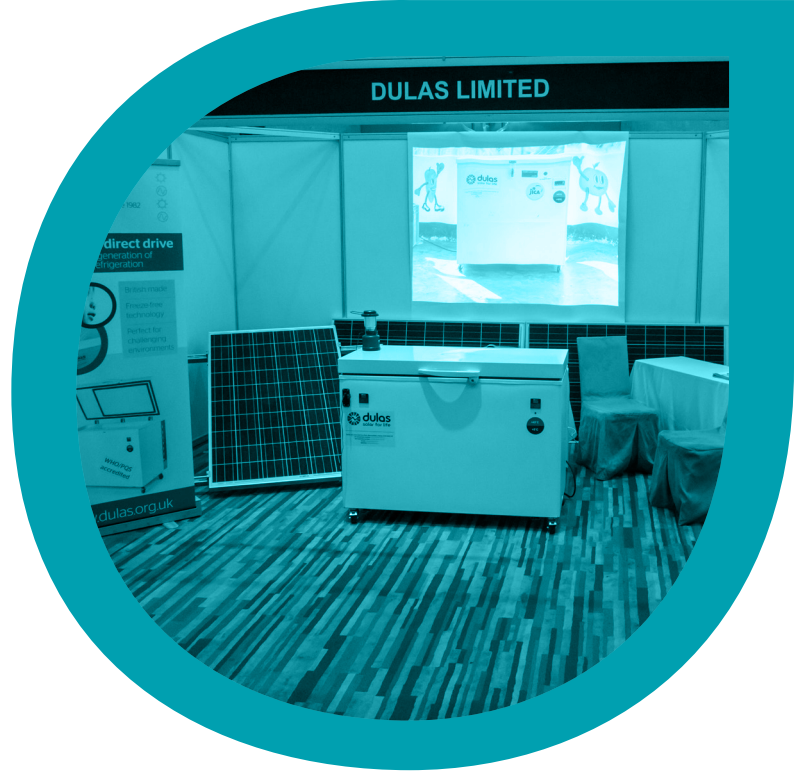
Key Features:

- Provides around 700Wh per day: enough to charge laptops, phones, solar lights, radios etc¹
- Prioritises the refrigerator at all times and has no impact on the performance of the PQS accredited product
- Robustness designed in: Over temperature, overcurrent & reverse polarity protected
- Promotes user engagement in the refrigerator care and maintenance

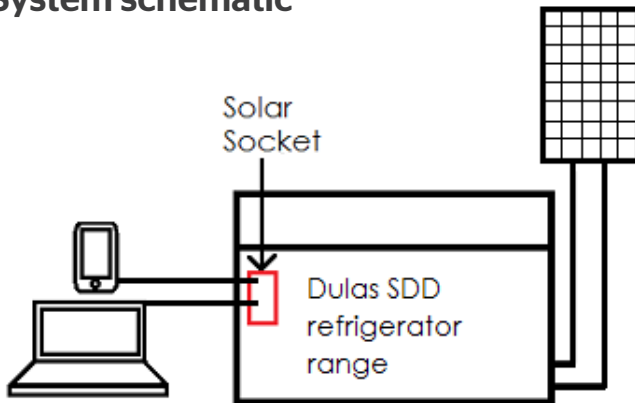


Note 1: Depending on exact system, climate conditions, refrigerator usage, amongst other factors

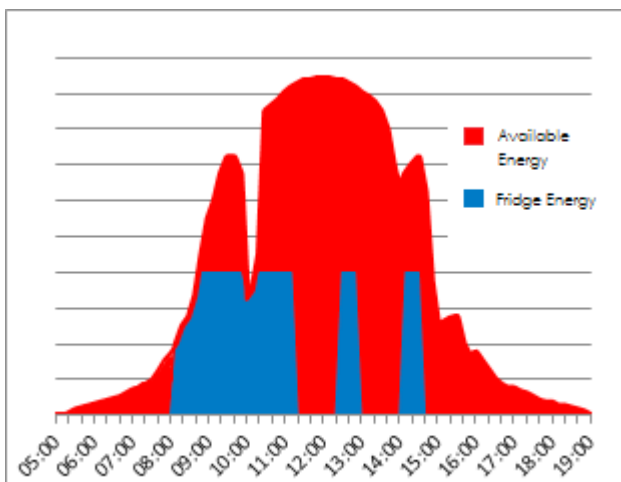
User interface



System schematic



Typical energy availability



Specifications

Outputs

- 1 x USB 5v/1A
- 1 x USB 5v/2.1A
- 1 x 12V Socket (standard automotive "cigarette" type)
- 100W max output @ 12Vdc

Protection

- Reverse polarity protection
- Input overcurrent protection
- Over temperature protection

Energy Availability

As standard energy is only available during daylight hours – optional energy store available.



Registered in Wales No. 1629011
All information correct at time of print Jul 2015

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