

BOSS Kit Milky Way

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BOSS-CONCEPT

Off-Grid solar power systems can be an important factor to support rural development in areas that are not connected to the electricity grid. The Phaesun BOSS-solutions target specifically the commercial sector in non-electrified areas. BOSS stand for **Business Opportunities with Solar Systems**. The Phaesun technical

The BOSS Milky Way is based on the utilization of milk-cans with removable insulation and the use of ice as a medium of refrigeration and storage of the milk. The ice is daily produced by a smart solar ice-maker that works independent from the electrical grid. By placing 6 kg ice into the ice-compartment after the milk-can has been filled, the milk is safe for the next 6 hours at any weather conditions. Additionally 20 litres of your evening milk can be stored overnight with 8 kg ice in the same milk-can. The milk cooling is insured during the different seasons. The removable insulation is to be used under warm weather conditions.

Technical data:

- Morning milk is safe under 20°C for 6 hours during transportation
- Evening milk can be stored under 10°C over the whole night
- Increase your productivity by regular milking times and no production losses anymore
- High quality milk gives access to premium price and additional markets
- Variable compressor speed for maximising ice production
- Integrated fan to increase freezing rate
- Energy saving mode during night and cloudy days
- Use of batteries to increase daily ice production up to 30%.
- Storage of 50 kg ice to assure an autonomy of 5 days

Amount	Components
1	Freezer 166 ltr.
4	Solar module 150 W
2	Battery AGM 65 Ah
1	Installation material, cables and connectors
1	Module support structure
1.	Isolated milk can 40 ltr.
25	Plastic cups for 2 kg ice each
2	LED tubes 5 W
1	USP output
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team develops innovative solutions together with component manufacturers and partners in the target countries. The systems are well adjusted to local needs, designed with high quality energy efficient loads which makes them robust with little maintenance needs.



Carbon Neutral

Irradiation Group	Irradiance	Ambient temp. 20°C	Ambient temp. 30 °C
4	6 kWh/m ² , day	13,2 kg	8,2 kg
5	5 kWh/m ² , day	17,0 kg	11,4 kg
6	4 kWh/m ² , day	17,5 kg	12,7 kg

