

BOSS Kit Keep Fresh

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BOSS-CONCEPT

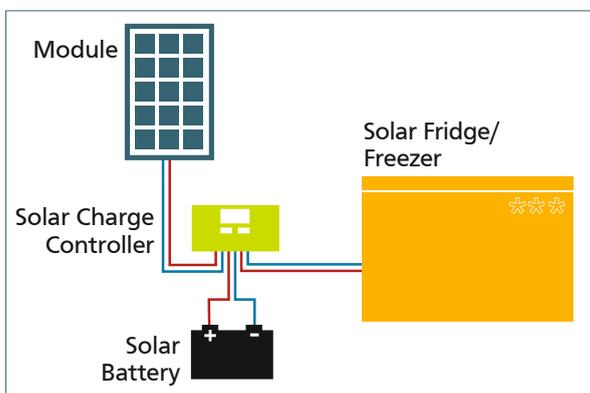
Off-Grid solar power systems can be an important factor to support rural development in areas that are not connected to the electricity grid. The Phaesun BOSS-solutions target specifically the commercial sector in non-electrified areas. BOSS stand for **Business Opportunities with Solar Systems**. The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

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.

The BOSS Kit Keep Fresh are the best solution for reliable cooling and freezing needs far from the electricity grid. These kits include the solar fridge Steca PF 166, that can be used for cooling or freezing, all equipment for charging and installation material. The kits are best suitable for the use in grocery stores, restaurant, bars, health posts etc. By offering cool drinks or frozen products the service quality of restaurants and shops can be improved and the sales can be increased. Food can be preserved longer and stays fresh.

Depending on the irradiation zone, the system works according to the data in the following table:

| Irradiation Group | Irradiance [kWh/m ² ,day] | Ambient temperature [°C] | Ice [ltrs] | Drinks [ltrs] |
|-------------------|--------------------------------------|--------------------------|------------|---------------|
| 1 | 6 | 35 | 5,0 | 22,8 |
| 2 | 5 | 30 | 4,4 | 23,7 |
| 3 | 4 | 28 | 3,2 | 20,5 |
| 4 | 3 | 25 | 2,2 | 18,0 |



| Components | Art.Nr. 600162 |
|---|----------------|
| Solar Fridge/Freezer Steca PF 166 | 1 x |
| Solar module | 2 x 150 W |
| Battery | 2 x 80 Ah |
| Charge controller | 10 A |
| Cabling, mounting structure and accessories | 1 x |
| Voltage | 24 VDC |