



Africa GreenTec #ImpactProduct

CoolUP® – innovative cooling technology for permanently fresh food

We have developed an innovative and efficient refrigerator specially designed to run on solar energy. During the day, when the sun shines, the CoolUP can be powered by solar energy and meanwhile store the cold. The system can be easily powered by one solar panel. At night, this cold is used to continue cooling food even without power. By using the integrated cold storage, the CoolUP also keeps operating costs low.



Integrated PCM storage

can store the cold and continue to cool for several hours without power supply



Low operating costs

due to low power consumption



DC /AC Versions

designed for solar energy supply (also available as AC version for operation on grid)

Plug & Play
available as a set including solar panels



Only 8 h of power per day brings 24 h of cooling

After an initial cooling phase (10 - 15 hours), the CoolUP requires only about 8 hours of electricity to maintain an internal temperature of 6 - 8 °C for another 16 hours. This is made possible by the use of our innovative PCM technology. The data given are approximate values and may vary depending on the ambient temperature.

Energy savings thanks to PCM technology

The case structure of our CoolUP is equipped with the energy-efficient PCM storage technology. The phase change material, or PCM for short, is a substance that absorbs energy during the transition from solid to liquid and thus cools the interior even without power supply. In combination with particularly efficient isolation, our CoolUP is therefore perfectly suited to be supplied with solar energy only during the day.



CoolUP Specifications DC / AC

Usable capacity	139 l
Dimensions without handle (height x width x depth)	1298 x 595 x 625 mm
Net weight	48 kg
Operating temperature	until 40 °C
Relative humidity	0 - 75 %
DC Rated power	70 W
AC Rated power	92 W
DC Rated voltage	10 V - 40 V _{DC}
AC Rated voltage	230 V ~ 50 Hz
DC Rated current	2 - 7 A
AC Rated current	0,4 A
Corrected max. sound power level	42 dBA
Certificates	CE, RoHS

Available everywhere

Our CoolUP is one of our few ImpactProducts that is not only available in Africa, but also in Europe. Either in the direct current variant (CoolUP DC) for a self-sufficient off-grid application or in the alternating current variant (CoolUP AC) as a relief for the battery storage of a self-sufficient power grid. This is exactly where private individuals in Europe also benefit from our CoolUP, as the PMC material can be fully charged during the day and can operate without power consumption during the night. In combination with a timer, this can save a lot of money. The CoolUP can be purchased individually or for self-sufficient use in a set together with solar panels.

The content of this twopager is intended to be used as an advertisement teaser of the product and not a prospectus for the final offer. Information contained in this document may change over time.

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