



## CN10 SU (Solar Unit)

All technical, logistical and operational characteristics are identical with the 10' Standard model, except or additionally the ones listed below.

### Weight:

- ▶ 1 000 kg

### Solar PV characteristics:

- ▶ 6 pack ultra-rugged glass-glass walkable solar panel
- ▶ 950W PV nominal performance with polycrystalline technology
- ▶ max PV output up to 1010W
- ▶ antireflection coating
- ▶ prismatic and ultra-clear top glass
- ▶ high efficiency poly- and monocrystalline system also available

### Energy output:

- ▶ 240V 50Hz full sinus
- ▶ Continuous power at 25 – 40 °C 1 000 / 850 W
- ▶ Peak power 2 200 W

### Standards:

- ▶ Safety EN-IEC 60335-1; EN-IEC 62109-1
- ▶ EMC EN 55014-1; EN 55014-2;
- ▶ EC 61000-6-1; IEC 61000-6-2;
- ▶ IEC 61000-6-3
- ▶ Automotive Directive ECE R10-4

### Battery capacity:

Industrial lithium cell with high energy density, made on the safe LiFePO<sub>4</sub> technology. Can be recharged at any state of discharge - no memory effect. LiFePO<sub>4</sub> is a very safe technology, no spontaneous combustion, does not react with moisture or with oxygen.

- ▶ Capacity 100 Ah
- ▶ Operation voltage 22,4 – 29,2 V
- ▶ Operating temperature -20°C – 55°C
- ▶ Optional outer battery pack 100 – 800 Ah

### Logistical advantages:

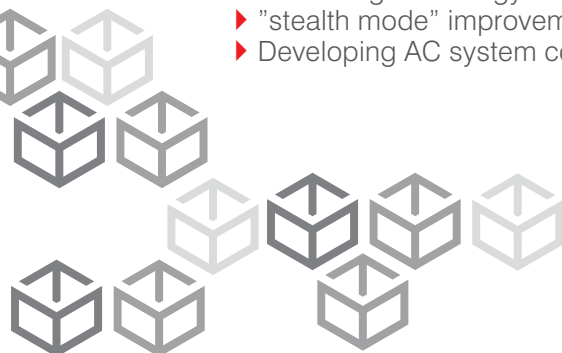
- ▶ eliminates the need of power generators
- ▶ eliminates the need of fuel storage and supply

### Operational advantages:

- ▶ "stealth mode" due to zero noise emission during operation
- ▶ hybrid system with built in intelligent command unit for grid or off grid mode
- ▶ the solar panel and inverter system can be optimized for specific climate areas
- ▶ additional power banks can be provided next to the built-in battery capacity to ensure higher and/or longer energy output
- ▶ ultra-rugged glass-glass walkable solar panel which resist physical impact
- ▶ remote monitoring and control of the solar and battery system either via Bluetooth (20 m range accessibility) or web (global accessibility)

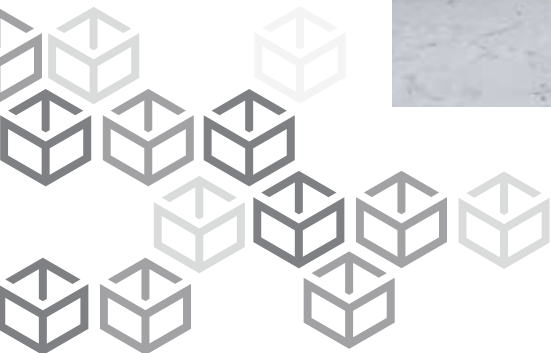
### R&D:

- ▶ Developing vertical solar surfaces on the side panels and solar sun-blinds for higher power generation capacity
- ▶ Increasing the energy storage capacity by installing a battery pack in the flooring
- ▶ "stealth mode" improvement by using camouflage panels
- ▶ Developing AC system compatible with the solar energy resources





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