

TRAILER-WATT® 12S



The autonomous and mobile solar energy solution.

Transportable by light vehicles using the 12S solar trailer's ball hitch head, suspension, and self-braking.



Trailer-Watt® 12S technical specifications

Trailer dimensions and weight

Length (m)	6.40
Width (m)	2.30
Height (m)	1
Ground clearance (cm)	40
Weight (T)	1.5
Characteristics	Single axle, suspension, ball hitch head and self braking

Deployed photovoltaic solution

Length (m)	6.40
Width (m)	4.2
Height (m)	1
Maximum trailer slope	30°
Equipment for sloping	Manual hydraulic cylinder
Deployment time for one person	5 to 10 minutes

Photovoltaic system

Module PV technology	Rigid monocrystalline
Module quantity	12 panels: 6 manually deployable and 6 fixed
Module Power	400 Wp
Total off-grid power	4.8 kWp

Conversion system

Power	5 kVA
Output	Single-phase current (32A and 16A plug)

Batteries system

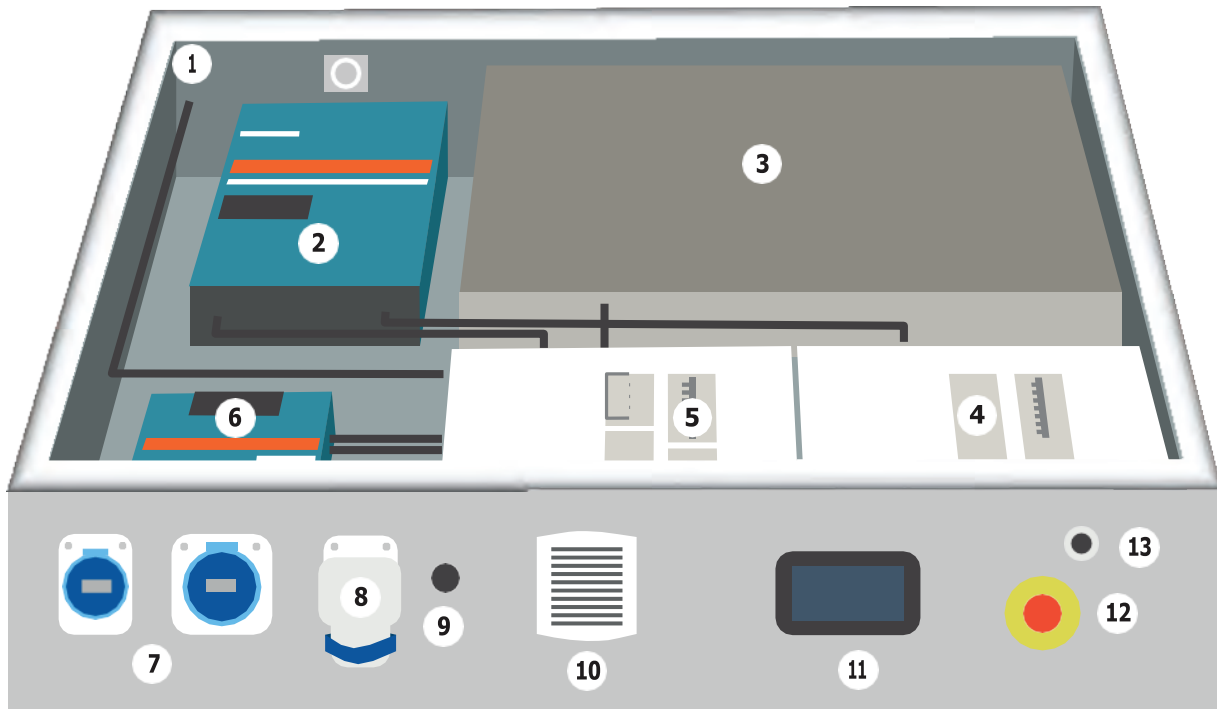
Technology	LiFePO4, high stability with 4000 cycles of charge/discharge at 90% of DOD. Mobility certified
Storage nominal capacity	11.5 kWh (90% usable)
Voltage	48 V
Interfacing external energy sources	Possibility to connect on external diesel generator or on the grid
Operating temperature	-20° to 45° Battery charging temperature: 0°C to 45°C

Options

Lighting mast

Applications

Humanitarian, mobile construction sites, military, agriculture, rural electrification, mining, events, base camps, water and waste treatment.



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|---------------------|----------------------------------|
| 1 Solar input | 8 Input plug |
| 2 Charging inverter | 9 Generator dry contact plug |
| 3 Battery | 10 Ventilation |
| 4 AC box | 11 Monitoring screen + 4G module |
| 5 DC box | 12 Emergency stop |
| 6 MPPT Regulator | 13 On / Off button |
| 7 Output plug | |

Trailer-Watt® 12S Advantages

- Plug & Play mobile solution on trailer
 - Fast deployment (about 10 minutes)
 - Chassis equipped with a pre-wired and pre-tested battery converter
 - Specific batteries for mobile use
 - Wiring according to European standards
 - Safe and easy access for maintenance operation
 - CE compliant products
- 🇫🇷 Made in France

Examples of Realization: Trailer-Watt® 12S

