

BENEFITS



**SOLAR POWER SYSTEM:
CLEAN ENERGY, PURE LIGHT**



**CARBON NEUTRAL MODEL:
PROTECT THE ENVIRONMENT!**



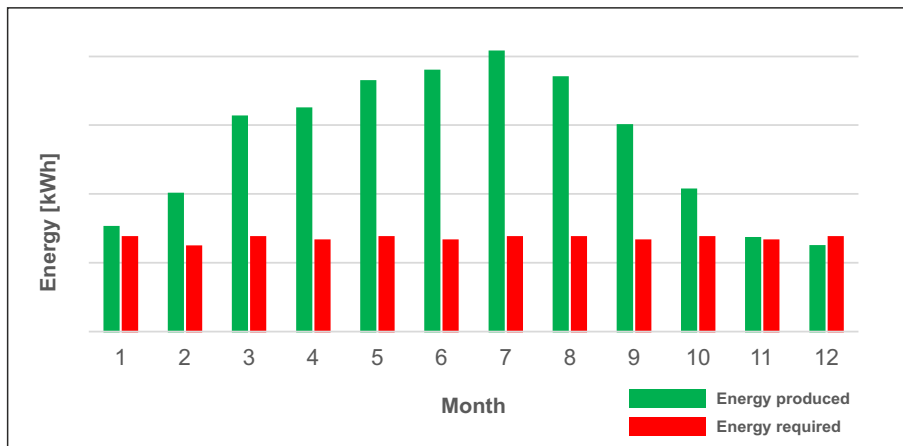
**NO ENGINE MEANS: NO REFUELLING,
ZERO NOISE & LESS MAINTENANCE COSTS**

PERFORMANCES SIMULATION

Depending on the location and the light power output of the floodlights, the VT-Solar can be totally autonomous, without need of recharging through an external power source.

In this specific simulation, we show that the energy produced by the solar panels can be more than the one required to power the floodlights.

Simulation data:
Location: Italy
Inclination: 35°
Azimuth: 180°
Light power output: 50% dimming
Utilisation: 8 hours/day



Performances may be influenced by weather conditions, orientation and surface status of the panels, shadows and location.

TECHNICAL DATA

VT-Solar Hydraulic

| | | | | | |
|------------------------------------|-------------------------|--------------------|--------|--------|---------|
| Min. dimensions ¹ (mm) | Length x Width x Height | 3576 x 1385 x 2406 | | | |
| Max. dimensions ¹ (mm) | Length x Width x Height | 3733 x 3104 x 8147 | | | |
| Dry weight ¹ (kg) | | 1150 | | | |
| Solar panels power (Wp) | | 3 x 400 | | | |
| Solar panels inclination angle (°) | Min. / Max. | 0 / 45 | | | |
| Batteries nominal capacity (kWh) | | 11.5 | | | |
| Battery recharging time (h) | Through power grid | 8 | | | |
| Dimmer switch | | 25% | 50% | 75% | 100% |
| Battery running time (h) | | 50 | 40 | 30 | 20 |
| Lamps power (W) | | 4 x 25 | 4 x 50 | 4 x 75 | 4 x 100 |
| Lamps type | | G4 LED | G4 LED | G4 LED | G4 LED |
| Illumination flux (Lm) | | 15000 | 30000 | 45000 | 60000 |
| Illuminated area (m ²) | | 1200 | 1800 | 2300 | 2800 |
| Lifting system | | Hydraulic | | | |
| Mast rotation (°) | | 340 | | | |
| Wind speed resistance (km/h) | | 80 | | | |
| CEE 16A inlet plug | √: Yes / ●: No | √ | | | |
| Multipin inlet plug | √: Yes / ●: No | √ | | | |

All data and pictures in this datasheet must be considered for illustrative purposes only and are not legally binding. The manufacturer reserves the right to bring modifications without advance notice.

EN_VT-Solar-Hyd_PPM_22-09_r6.0



VT-SOLAR

**Clean Energy
Pure Light**

GENERAC MOBILE

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GENERAC MOBILE

The ultimate in ecology, with compact dimensions and easily transportable. The new hydraulic **VT-Solar** mobile lighting tower is powered by three solar panels and guarantees great brightness performance and long battery life. An easy control panel and the possibility of connection to an external power source for recharging even in the absence of sunlight, make this lighting tower a product of simple use and great flexibility.

4x100W LED floodlights
Adjustable power
from 25% to 100%

Aluminium case
LED life expectancy:
50,000 hours

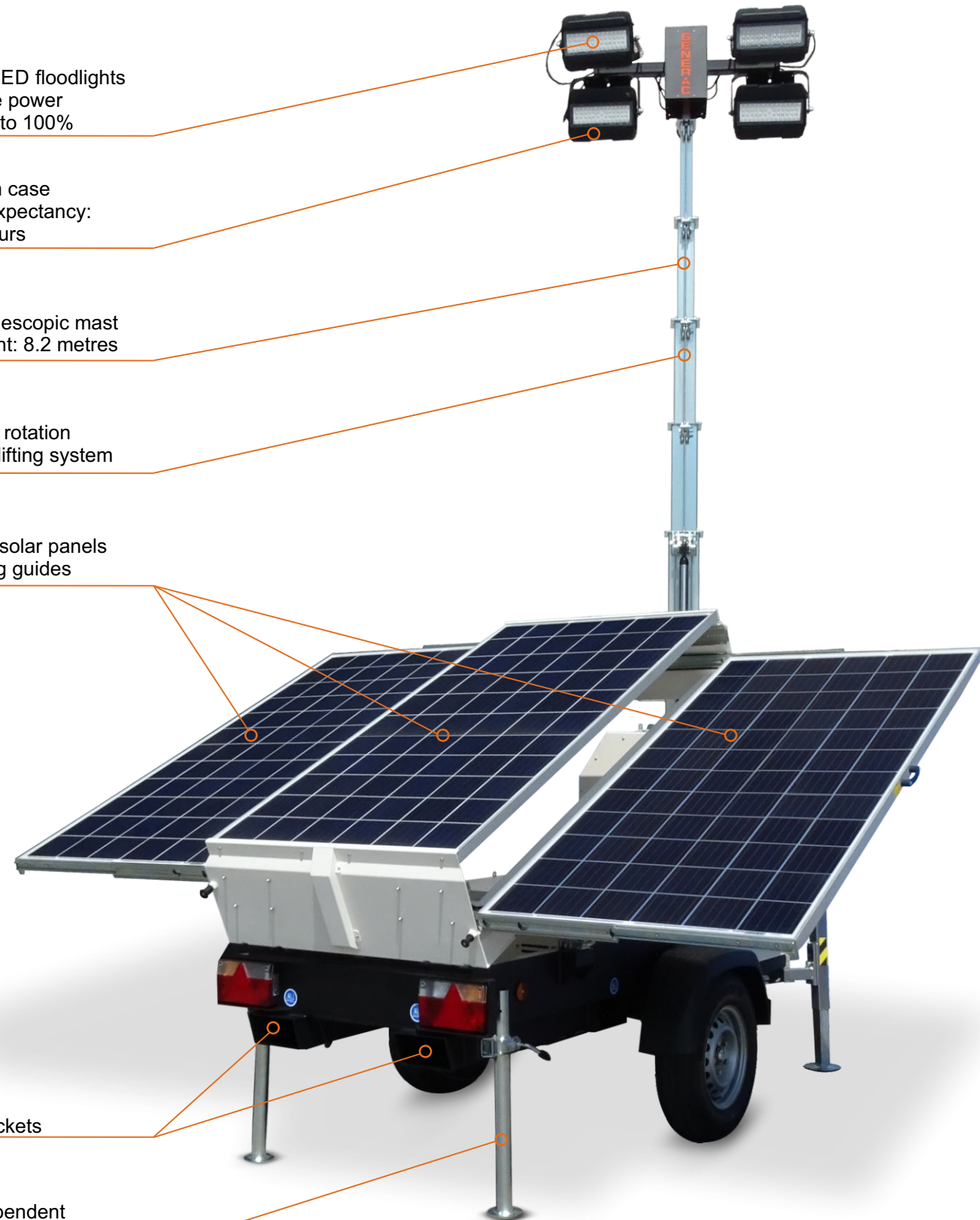
Vertical telescopic mast
Max. height: 8.2 metres

340° mast rotation
Hydraulic lifting system

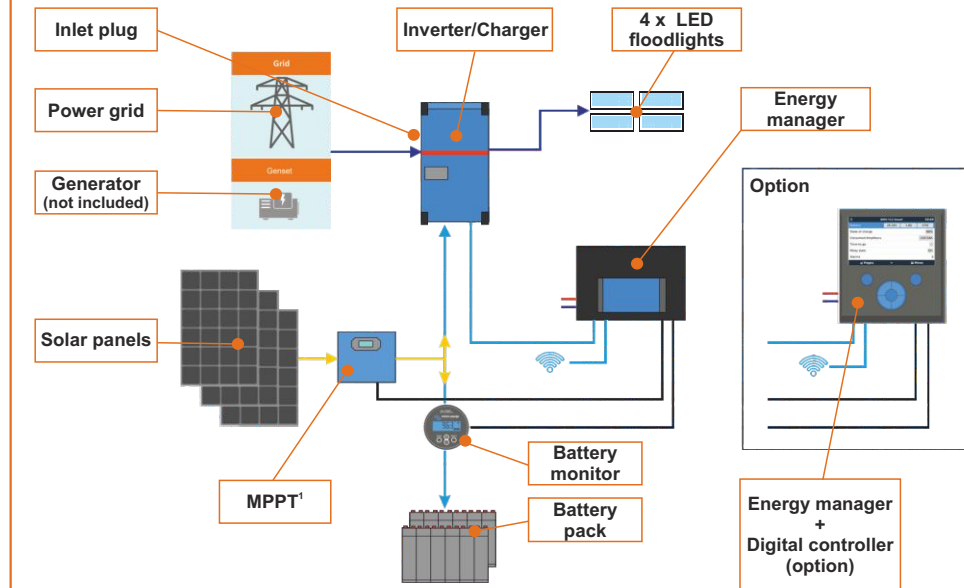
3x400Wp solar panels
with sliding guides

Forklift pockets

Four independent
stabilizers



INVERTER/CHARGER - BASIC DESCRIPTION



¹Maximum Power Point Tracker

² With generator, power grid or during sun peak hours (best average)

HOW IT WORKS:

The AGM battery pack can be recharged either by the internal inverter powered by the standard solar panels or by an inlet socket to be connected directly to the Mains or another external power source. The energy stored into the batteries ensures the full functionality of the LED floodlights.

The average battery operating time with all LED floodlights switched on is estimated to be from 20 to 50 hours depending on the light output power, with 8h of recharging time².

SOLAR PANEL TECHNICAL DATA

| | | | |
|-----------------------------------|-----------------|-------------------------------|-----------------------|
| Nominal power (tolerance: +/- 3%) | 400 W | Maximum surface load capacity | 200 kg/m ² |
| Cell type | Polycrystalline | Allowable hail load | 23 m/s ; 7.53 g |
| Number of cells in series | 782 | Junction box type | PV-JH200 |
| Maximum system voltage | 1000 V | Length of cable/connector | 1000 mm / MC4 |
| Temperature working range | -40°C to +85°C | Frame | Aluminium |



MCP - MANUAL CONTROL PANEL

The control panel includes:

- Battery monitoring device
- Battery low voltage alarm
- Fuse for DC protection
- Inverter alarm
- Hour-counter
- RCD-MCB circuit breaker
- Mains circuit breaker
- Lamps circuit breaker
- Main system On/Off switch
- Solar panels circuit breaker
- Digital timer (option)
- Darkness sensor (option)
- Selector switch for manual mode / digital timer / darkness sensor (option)
- Advanced digital controller (option)
- Up/Down button for hydraulic mast

Every circuit breaker is provided with differential protection.