

### VT-Solar light tower: clean energy, pure light

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

#### How it works:

The batteries can be recharged either through the internal inverter powered by the standard solar panels or through a socket directly from the Mains or other external power source. The energy stored into the batteries ensures the full functionality of the LED floodlights. The AC output is available only within the EU. The average battery operating time with all LED lamps on is estimated to be about 10 hours, with about 6 hours of recharging time.

#### Control panel:

The control panel includes as standard:

- 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
- Digital timer (option)
- Darkness sensor (option)
- Solar panels circuit breaker
- Main system On/Off selector switch
- Selector switch for Manual mode / Digital timer / Darkness sensor (option)

Every circuit breaker is provided with differential protection.

#### All-In-One solar light solution

The VT-Solar combines a MPPT solar charge controller and an inverter/charger in one products. The batteries can be charged with sunlight (3x solar panels) and/or with AC power (inverter/charger) from the utility grid or a genset. Our Power Assist protects the utility from being overloaded.

#### Lighting tower technical data

- 340° rotating telescopic mast with manual winch
- Max. height: 6.5 m
- Panels with Manual Tilting (Angle Corrector: 0-45°)
- Backup generator: Option
- Inverter with battery status indicator and Recharging Plug 16A
- Trailer: Slow Speed trailer (standard) or Road trailer (option)



Picture shown may not reflect actual configuration.

VT-Solar	Technical Data
Minimum dimensions (L x W x H)	2983 x 1386 x 2474
Maximum dimensions (L x W x H)	3514 x 3059 x 6500
Dry weight	1000 kg
Lifting system	Manual
Mast rotation	340°
Lamps power	4 x 100W
Lamps type	LED
Total lumen	58000 Lm
Illuminated area	2100 m <sup>2</sup>
Solar panels power	3 x 300W
Solar panels inclination angle	from 0° to 45°
AGM batteries	8 x 230Ah
Battery recharging time	6 h
Battery running time	10 h
Inlet plug (A/V/Hz)	16/220/50 – 16/240/60
Avg. sound pressure	0
Wind speed resistance	80 km/h

Nominal power (+/- 3%)	300W
Cell type	Polycrystalline
Number of cells in series	782
Maximum system voltage	1000V
Temperature coefficient of PMPP (%)	-0.47/°C
Temperature coefficient of VOC (%)	-0.34/°C
Temperature coefficient of ISC (%)	-0.045°C
Temperature range	-40°C to +85°C
Max. surface load capacity	200 kg/m <sup>2</sup>
Allowable hail load	23 m/s ; 7.53 g
Junction box type	PV-JH200
Length of cable	1000 mm
Connector type	MC4
Output tolerance	+/- 3%
Frame	Aluminium



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