# **VT-HYBRID**

The VT-Hybrid is the first hybrid light tower in the world. It is equipped with 4x150W high efficiency LED floodlights powered by a rechargeable battery pack. This light tower guarantees a great reliability and a perfect sustainability. Mobile version with site-tow or road trailer.





MPNANO DIGITAL CONTROLLER

A digital controller studied to manage every function of the hybrid system.



#### VT-Hybrid

TECHNICAL DATA           Minimum dimensions (mm)         Length x Width x Height         3250 x 1400 x 2440           Maximum dimensions (mm)         Length x Width x Height         3250 x 2100 x 8500           Dry weight (kg)         1230         1230           Lifting system         M:Manual / H:Hydraulic         H           Mast rotation (°)         4 x 150         340           Lamps power (W)         Lon         4 x 150           Lamps type         MH:MetalHalide / LD:LED         LD           Total lumen (Lm)         76500         1110           Illuminated area (m²)         2500         2500           Engine         A         2500           Engine cooling         L: liquid / A: air         A           Cylinders (q.ty)         1         1           Engine speed (RPM)         50 / 60 Hz         3000 / 3600           Liquid containment (110%)         √:Yes / •:No         √           Atternator         KVA/V/Hz         5/220/50 - 5/240/60           Battery recharging time (h)         8         8           Inlet plug         AV/Hz         16/220/50 - 16/240/60           Avg. sound pressure         dB(A) @ 7m         0 - 67           Wind speed resistance (km/h)         110 <th></th> <th></th> <th>* T T Y KITG</th>			* T T Y KITG
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Lamps typeMH:MetalHalide / LD:LEDLDTotal lumen (Lm)76500Illuminated area (m²)2500EngineYanmar L70NEngine coolingL: liquid / A: airCylinders (q.ty)1Engine speed (RPM)50 / 60 HzJudic containment (110%) $\sqrt{:Yes / \bullet:No}$ AtternatorkVAV/HzBattery recharging time (h)5Battery running time (h) $4/2$ Inlet plugAV/HzAug. sound pressuredB(A) @ 7mWind speed resistance (km/h)110Tank capacity (liters)160	Mast rotation (°)		340
Total lumen (Lm)Total lumen (Lm)Total lumen (Lm)Illuminated area (m²)2500EngineYanmar L70NEngine coolingL: liquid / A: airACylinders (q.ty)1Engine speed (RPM) $50 / 60$ Hz $3000 / 3600$ Liquid containment (110%) $\sqrt{:}Yes / \bullet:No$ $$ AlternatorkVA/V/Hz $5/220/50 - 5/240/60$ Battery recharging time (h)5Battery running time (h) $8$ Inlet plug $A/V/Hz$ $16/220/50 - 16/240/60$ Avg. sound pressure $dB(A) @ 7m$ $0 - 67$ Wind speed resistance (km/h)110Tank capacity (liters)160	Lamps power (W)		4 x 150
Illuminated area (m²)         1000           Engine         2500           Engine cooling         L: liquid / A: air         A           Cylinders (q.ty)         1         1           Engine speed (RPM)         50 / 60 Hz         3000 / 3600           Liquid containment (110%)         √: Yes / •: No         √           Alternator         kVA/V/Hz         5/220/50 - 5/240/60           Battery recharging time (h)         5         8           Inlet plug         A/V/Hz         16/220/50 - 16/240/60           Avg. sound pressure         dB(A) @ 7m         0 - 67           Wind speed resistance (km/h)         110         110           Tank capacity (liters)         160         100	Lamps type	MH:MetalHalide / LD:LED	LD
Engine       Yanmar L70N         Engine cooling       L: liquid / A: air       A         Cylinders (q.ty)       1       1         Engine speed (RPM)       50 / 60 Hz       3000 / 3600         Liquid containment (110%)       √:Yes / •:No       √         Alternator       kVA/V/Hz       5/220/50 - 5/240/60         Battery recharging time (h)       5       8         Inlet plug       A/V/Hz       16/220/50 - 16/240/60         Avg. sound pressure       dB(A) @ 7m       0 - 67         Wind speed resistance (km/h)       110       110         Tank capacity (liters)       160       160	Total lumen (Lm)		76500
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Cylinders (q.ty)         1           Engine speed (RPM)         50 / 60 Hz         3000 / 3600           Liquid containment (110%) $\sqrt{:}Yes / \bullet:No$ $$ Alternator         kVA/V/Hz         5/220/50 - 5/240/60           Battery recharging time (h)         5         5           Battery running time (h)         8         8           Inlet plug         A/V/Hz         16/220/50 - 16/240/60           Avg. sound pressure         dB(A) @ 7m         0 - 67           Wind speed resistance (km/h)         110         110           Tank capacity (liters)         160         160	Engine		Yanmar L70N
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Liquid containment (110%)         √:Yes / •:No         √           Alternator         kVA/V/Hz         5/220/50 - 5/240/60           Battery recharging time (h)         5           Battery running time (h)         8           Inlet plug         A/V/Hz         16/220/50 - 16/240/60           Avg. sound pressure         dB(A) @ 7m         0 - 67           Wind speed resistance (km/h)         110         110           Tank capacity (liters)         160         160	Cylinders (q.ty)		1
Alternator         kVA/V/Hz         5/220/50 - 5/240/60           Battery recharging time (h)         5           Battery running time (h)         8           Inlet plug         A/V/Hz         16/220/50 - 16/240/60           Avg. sound pressure         dB(A) @ 7m         0 - 67           Wind speed resistance (km/h)         110         110           Tank capacity (liters)         160         160	Engine speed (RPM)	50 / 60 Hz	3000 / 3600
Battery recharging time (h)5Battery running time (h)8Inlet plugA/V/HzInlet plugA/V/HzAvg. sound pressuredB(A) @ 7mWind speed resistance (km/h)110Tank capacity (liters)160	Liquid containment (110%)	√:Yes / ●:No	$\checkmark$
Battery running time (h)     8       Inlet plug     A/V/Hz     16/220/50 - 16/240/60       Avg. sound pressure     dB(A) @ 7m     0 - 67       Wind speed resistance (km/h)     110       Tank capacity (liters)     160	Alternator	kVA/V/Hz	5/220/50 - 5/240/60
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Avg. sound pressure         dB(A) @ 7m         0 - 67           Wind speed resistance (km/h)         110         110           Tank capacity (liters)         160         160	Battery running time (h)		8
Wind speed resistance (km/h)     110       Tank capacity (liters)     160	Inlet plug	A/V/Hz	16/220/50 - 16/240/60
Tank capacity (liters)     160	Avg. sound pressure	dB(A) @ 7m	0 - 67
	Wind speed resistance (km/h)		110
Total running time (h) 665	Tank capacity (liters)		160
	Total running time (h)		665

# **VT-HYBRID LIGHT TOWER**

## BATTERY PACK

The VT-Hybrid provides up to 8 hours of continuous operation without carbon dioxide emissions, fuel consumption nor noise, thanks to the battery pack. The special dry batteries are able to be recharged in less than 5 hours and have a guaranteed charge/discharge cycle of more than 4000 hours. The batteries can be recharged from either an external power source or from the built-in backup generator.

#### **BACKUP GENERATOR**

When the VT-Hybrid has utilized all of the stored energy from the battery pack, the diesel generator will automatically start, providing all the energy required to power the lamps and at the same time recharging the battery pack. When the battery pack is fully recharged, the generator will automatically turn off.

#### LED LAMPS 4x150 W high efficiency LED floodlights designed by Generac Mobile® LOW NOISE AND CARBON DIOXIDE EMISSION! When the VT-Hybrid is powered

**GENERAC®** 

When the VT-Hybrid is powered through the battery pack, it is completely silent and doesn't emit carbon dioxide ( $CO_2$ ). An ideal solution for events and working areas with low noise or  $CO_2$  emission requirements.

#### THE LONGEST RUNNING TIME!

Thanks to the hybrid features and the LED lamps, this model can run more than 660 hours without refueling.

#### DIFFERENT TYPES OF TRAILER

The VT-Hybrid is equipped as standard with a site-tow trailer but as options there are available different types of road trailers with lights, brakes and documents for EU road homologation.

### **OPTIONS AVAILABLE**

- Low speed site-tow trailer (standard)
- Road trailer type A (straight)
- Road trailer type B (foldable)
- Road trailer type C (adjustable)
- Ball hitch type 50 mm
- Eyelet hitch type 50 mm
- French hitch type 68mm for road trailer type C
- Documents for EU road registration
- Additional spare tyre with support
- Pre-heating system
- AMOSS kit

- Darkness sensor
- Digital timer

BLUE

- Earth picket with 5m cable
- Plastic box for documents
- Dedicated colour
- Shut-off valve
- Certified spark arrestor
- Hot-dip zinc coating of mast sections
- Insulation monitoring device
- Remote controller (telemetric)
- Remote emergency stop controller