

GLT1600L-7VMY

Powered by  **YANMAR**

Genlitec[®]
Power & Lighting Solutions



■ Generator Specification

Service	50Hz	60Hz
Genset PRP ⁽¹⁾ (KW)	7.0	8.0
Engine speed	1500RPM	1800RPM
Power factor	1.0	
Phase	Single	
Voltage (V)	110/220; 120/240; 220; 230; 240	

Performance Data	
Model	GLT1600L-7VMY
Engine brand	YANMAR
Engine model	3TNV76
Speed control type	Mechanical
Alternator brand	GENLITEC
Alternator model	S164LT8
Control system	SMARTGEN HGM1790N
Starter motor voltage	12V
Max. height of mast	7 meters
Mast lifting/lowing system	Vertical manual
Total power of lamps	4x400 watts LED
Fuel consumption (100% load)	2.5L/H
Fuel tank capacity	100L



GENLITEC Power lighting towers & generator sets are compliant with ISO 9001 and CE standard, which include the following directives:

- 2006/42/EC Machinery directive
- 2014/30/EU Electromagnetic compatibility directive
- EN 12100:2010; EN ISO 8528-13:2016; EN 60204-1:2018; EN 61000-6-2:2019; EN 61000-6-4:2019

(1) PRP (Prime Power)

According to ISO 8528-1, prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during at 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

(2) ESP (Standby Power)

According to ISO 8528-1. It is defined as the maximum power available, under the agreed operating conditions, for which the generating set is capable of delivering for up to 500 hours of operation per year (of which no more than 300 hours for continuative use) with the maintenance intervals and procedures being carried out as prescribed by the manufactures. No overload capability is available.

Container Loading Capacity

6 SETS (disassembled**) / 20GP

12 SETS (disassembled**) / 40GP

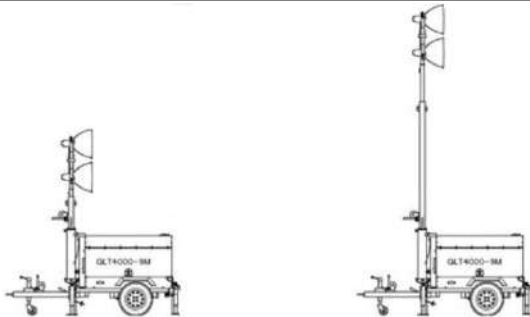


**dismounted parts: tow bar, wheels, axle, stabilizers

Standard Reference Conditions

Note: Standard reference condition 25°C (77°F) air inlet temp. 100m (328ft) A.S.L 30% relative humidity. Fuel consumption date with diesel fuel with specific gravity of 0.85 and conforming to BS 2869: 1998 Class A2

Dimension & Weight



Dimension	Storage	Working
Length (L)	2710mm	3050mm
Width (W)	1410mm	2500mm
Height (H)	2760mm	7000mm
Net Weight	810kg	

Note: This parameter allows for some acceptable deviations.

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■ Engine Specification



MODEL: YANMAR 3TNV76	
Cylinder number	3
Aspiration system	Natural
Cooling method	Water cooled
Combustion system	Ball-type swirl chamber
Bore x Stroke (mm)	76 x 82
Compression ratio	23.5:1
Rated speed (RPM)	1500/1800
Displacement (L)	1.116
Rated power (KW)	8.2/1500RPM
	9.8/1800RPM
Coolant capacity (L)	0.9 (engine only)
Oil capacity (L)	3.4
Speed governor	Mechanical
Starter motor capacity	DC 12V

■ Alternator Specification



MODEL: GENLITEC S164LT8	
Number of phases	Single
Rated power (KW)	8
Frequency (Hz)	50/60
Power factor (Cos Phi)	1
Temp. rise	125K
Insulation type	H class
Ambient temp.	40°C
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Coupling	Flexible disc

■ Operation Mast Specification

Max. height of mast	7m
Elevation system	Vertical, Mechanical
Raising/Lowing mast method	Manual winch
Mast stages	6
Turning angle	358° manually
Mast material	Galvanization Steel tube
Self-lock Winch	1 x manual

■ Lamps Specification

Total power of lamps	4 x 400 watts
Lamps type	LED
Light capacity	4 x 60,000 lumen
Design lifetime	50000 hours
Working temperature	-40°C ~ 50°C
Max. Light coverage	4650m ² (Horizontal Angle)
Protection grade	IP65

■ Chassis Specification

Tow Hitch type	"O" ring or Ball tow hitch
Brake type	Mechanical hand brake
Trailer structure	Single axle
Tyre size	13 inches
Leveling jack type	5 x Manual

■ Controller Panel Specification

Control module	SMARTGEN HGM1790N
Main & Lamps Breaker	DELIXI
Emergency stop	Equipped
Starting method	Electric (Key start/Button))
Output Socket	2 x Single phase

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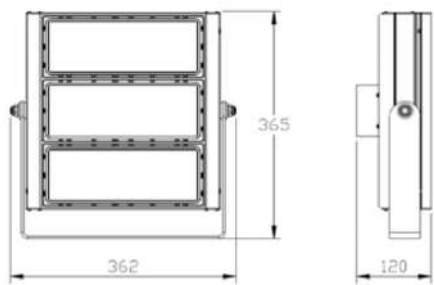
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LED Lights Detailed Technical Data

Image

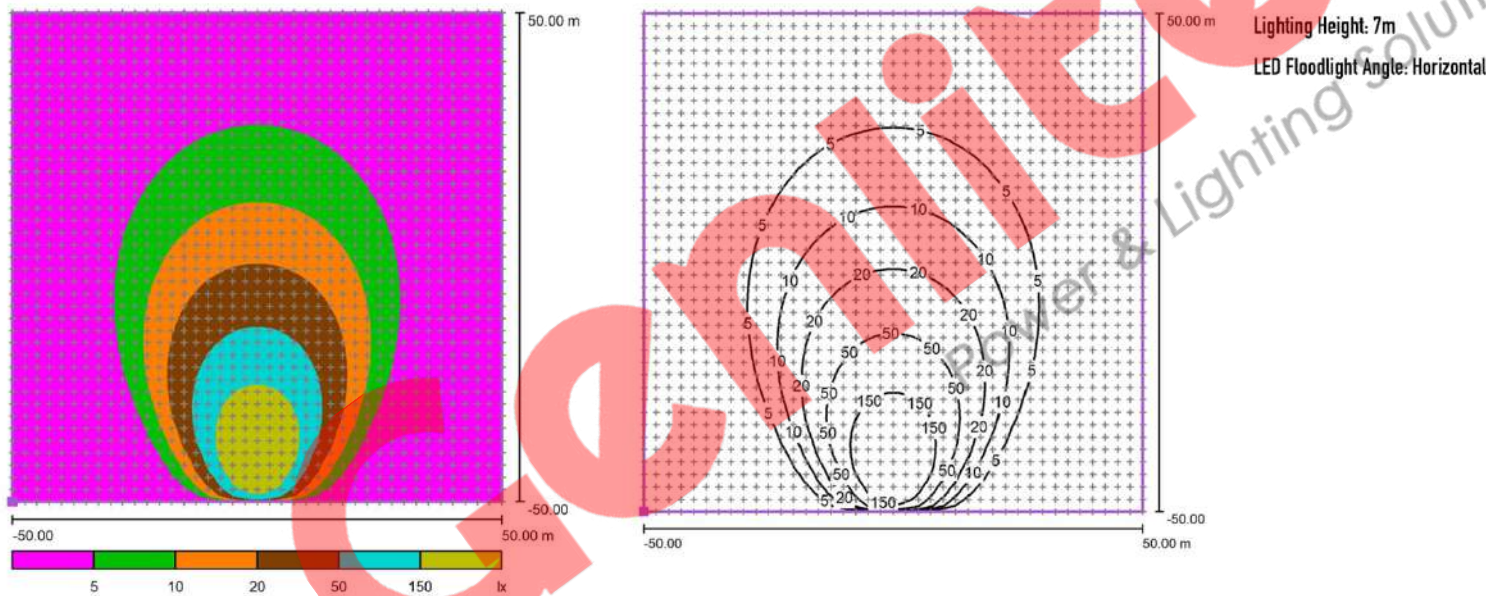


Dimension



Description	LED Floodlights
Model number	JR328-400W
Light power	400W LED
Installation method	“U” type holder
Working temperature	-40°C ~ 50°C
Rated voltage	AC 100-277V
Rated frequency	50/60Hz
Power factor	≥0.95
Design lifetime	50000 hours
Protection grade	IP65
Certificates	3C, UL, CE
Light cover material	Aluminum
Radiate unit	Aluminum radiator
Lighting angle	25° , 40° , 60° , 90° , 110°
Luminous efficacy	150Lm/W
Luminous flux	60000Lm@5000K
Color temperature	5700±300K
Color rendering index	RA≥70@5000K

Lighting Performance



Standard Supply Scope

- | | | | |
|-------------------------------|----------------------------|-----------------------------------|---------------------------|
| ● Industrial exhaust silencer | ● Flexible pipes | ● Float Battery charger | ● Base frame |
| ● Maintenance free battery | ● Battery wires | ● Manual books | ● Digital control panel |
| ● Water cooling radiator | ● Wiring diagram | ● Ball/Ring hitch with safe chain | ● Main circuit breaker |
| ● A.V.R | ● Build-in based fuel tank | ● Emergency stop button | ● Power output socket x 2 |
| ● Weatherproof canopy | ● Top caution light | | |

Optional Supply Scope

Engine	AC Alternator	Control Panel	Lamps	Others
☐ Kubota D1105-BG	☐ Stamford	☐ Smartgen ALC404	☐ 4x1000W MH lamps	☐ Security camera
☐ Perkins 403D-11G	☐ Mecc Alte	☐ Smartgen ALC704	☐ 4x350W LED	☐ Grounding rod
☐ Yanmar 3TNV88		☐ Smartgen ALC708	☐ 4x480W LED	☐ Water-jacket heater
☐ Quanchai QC380D		☐ ComAp LTC 80		☐ Battery isolator
		☐ Wi-Fi router (4G SIM)		☐ Fire Extinguisher
		☐ Remote control & monitoring system		☐ Wheel chocks
				☐ Reflector set

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■ Control Panel

Configuration
● Emergency stop button
● Protection MCB + Lamps & Socket circuit breaker
● Digital control module
● Power output socket x 2 (Single Phase)
● Controller box
● Alarm buzzer



Key Features
● Large back-lit icon LCD display
● Single / Three phase generator monitoring
● AC phase voltage display
● Generator frequency display
● Engine speed RPM display
● Battery voltage Vdc display
● Generator running hours display
● Engine coolant temperature display
● Engine oil pressure display
● Pre-alarm & shutdown alarm function
● Low oil pressure shutdown alarm
● Engine high temperature shutdown alarm
● Engine over speed shutdown alarm
● Generator over/under voltage shutdown alarm
● Generator overload shutdown alarm
● Start/Stop failure shutdown alarm
● IP65 rating offers increased resistance to water ingress

Control Module: SMARTGEN HGM1790N	
Digital input	5
Relay output	5
Communication interface	PC
AMF	N/A
AC System	1P2W / 2P3W / 3P3W / 3P4W
Phase voltage input	0-300Vac
Frequency range	3Hz ~ 70Hz
Standby current	TBA
Accuracy	1%
Control relay outputs	3A/30Vdc
DC supply	DC 8-35V
Operating temp.	-20 ~ +70°C

■ Controller Module Options

Smartgen	Smartgen	ComAp
ALC404	ALC704/708	IntelLite LTC 80
		

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