

# GLT1600L-8HQ

Powered by  **QUANCHAI**

**Genlitec**<sup>®</sup>  
Power & Lighting Solutions



## ■ Generator Specification

| Service                              | PRP <sup>(1)</sup>              | ESP <sup>(2)</sup> |
|--------------------------------------|---------------------------------|--------------------|
| Genset <b>PRP<sup>(1)</sup></b> (KW) | 7.0                             | 8.0                |
| Engine speed                         | 1500RPM                         | 1800RPM            |
| Power factor                         | 1.0                             |                    |
| Phase                                | Single                          |                    |
| Voltage (V)                          | 110/220; 120/240; 220; 230; 240 |                    |



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

4 SETS (disassembled\*\*) / 20GP

8 SETS (disassembled\*\*) / 40GP



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

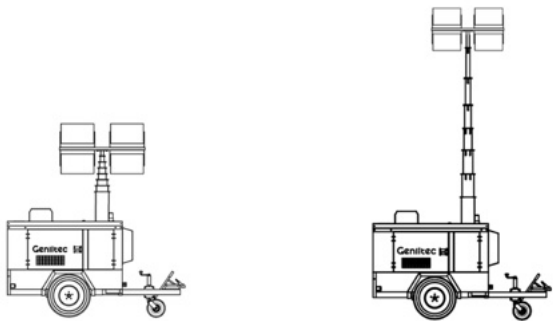


| Performance Data             |                          |
|------------------------------|--------------------------|
| Model                        | GLT1600L-8HQ             |
| Engine brand                 | <b>QUANCHAI</b>          |
| Engine model                 | QC380D                   |
| Speed control type           | Mechanical               |
| Alternator brand             | <b>GENLITEC</b>          |
| Alternator model             | S164LT8                  |
| Control system               | <b>SMARTGEN</b> HGM1790N |
| Starter motor voltage        | 12V                      |
| Max. height of mast          | 8 meters                 |
| Mast lifting/lowering system | Hydraulic                |
| Total power of lamps         | 4x400 watts <b>LED</b>   |
| Fuel consumption (100% load) | 2.61L/H                  |
| Fuel tank capacity           | 115L                     |

### 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) | 2810mm  | 2810mm  |
| Width (W)  | 1440mm  | 2450mm  |
| Height (H) | 2890mm  | 8000mm  |
| Net Weight | 950kg   |         |

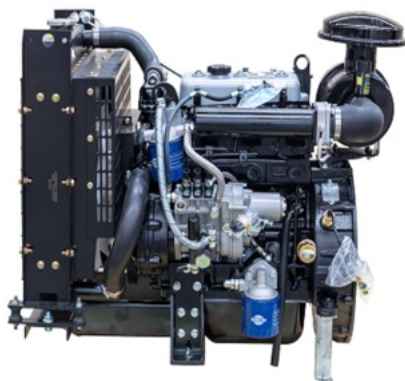
Note: This parameter allows for some acceptable deviations.

# GLT1600L-8HQ

Powered by  **QUANCHAI**

**Genlitec**<sup>®</sup>  
Power & Lighting Solutions

## ■ Engine Specification



| MODEL: QUANCHAI QC380D |                  |
|------------------------|------------------|
| Cylinder number        | 3                |
| Aspiration system      | Natural          |
| Cooling method         | Water cooled     |
| Combustion system      | Direct injection |
| Bore x Stroke (mm)     | 80 x 90          |
| Compression ratio      | 18:1             |
| Rated speed (RPM)      | 1500/1800        |
| Displacement (L)       | 1.357            |
| Rated power (KW)       | 9.0/1500RPM      |
|                        | 11.0/1800RPM     |
| Fuel injection pump    | Mechanical pump  |
| Oil capacity (L)       | 4                |
| Coolant capacity (L)   | 6.5              |
| Starter motor capacity | DC 12V – 1.0A    |

## ■ 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        | 8m                       |
| Elevation system           | Hydraulic                |
| Raising/Lowing mast method | Electric Button          |
| Mast stages                | 8                        |
| Mast turning angle         | 358° manually            |
| Lights tilting angle       | 0                        |
| Mast material              | Galvanization Steel tube |

○ **For options** (please contact with GENLITEC sales team for more information)

## ■ 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  | 5000m <sup>2</sup> (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                |
| Tire size          | 14 inches                  |
| Leveling jack type | 5 x Manual                 |

## ■ Controller Panel Specification

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

# GLT1600L-8HQ

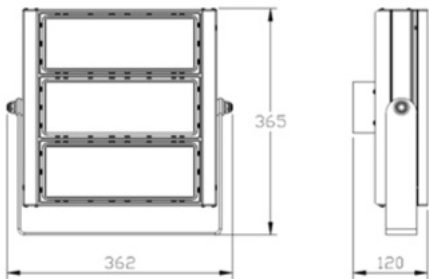
Powered by 

## LED Lights Detailed Technical Data

Image

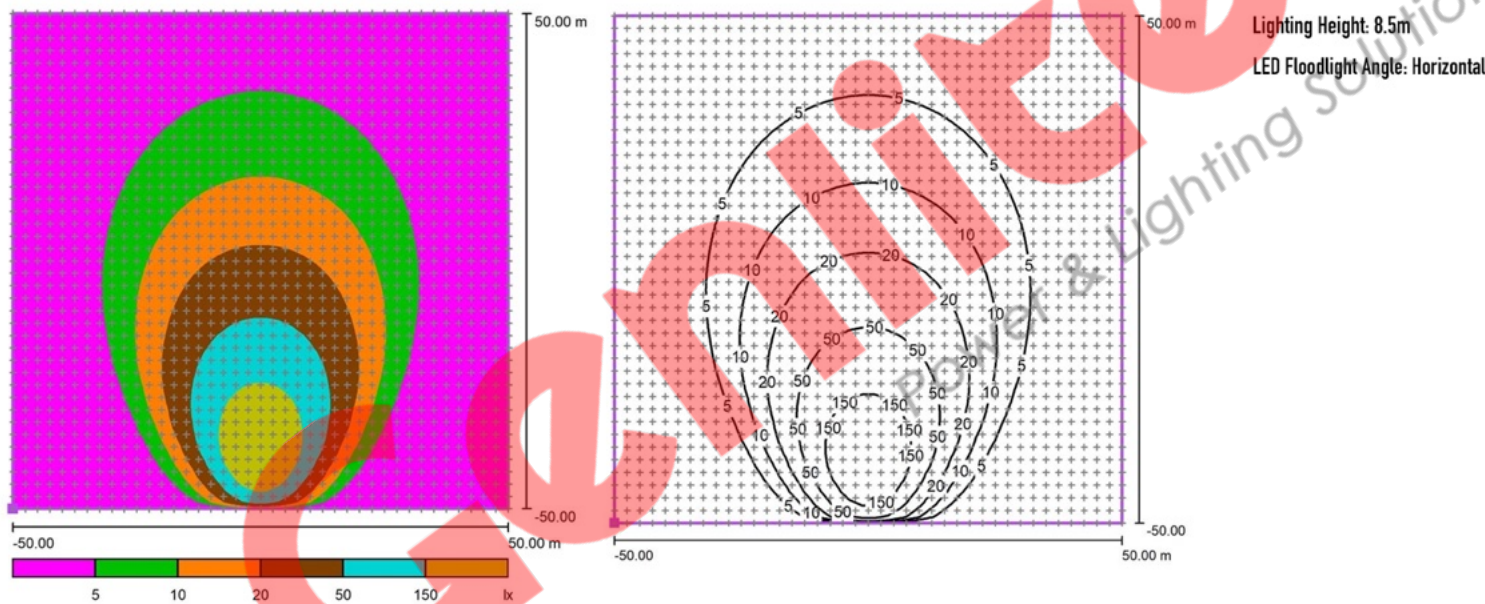


Dimension



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

## Optional Supply Scope

| Engine                                     | AC Alternator                      | Control Panel                                               | Lamps                                     | Others                                       |
|--------------------------------------------|------------------------------------|-------------------------------------------------------------|-------------------------------------------|----------------------------------------------|
| <input type="checkbox"/> Yanmar 3TNV76     | <input type="checkbox"/> Stamford  | <input type="checkbox"/> Smartgen ALC404                    | <input type="checkbox"/> 4x1000W MH lamps | <input type="checkbox"/> Security camera     |
| <input type="checkbox"/> Perkins 403D-11G  | <input type="checkbox"/> Mecc Alte | <input type="checkbox"/> Smartgen ALC704                    | <input type="checkbox"/> 4x350W LED       | <input type="checkbox"/> Grounding rod       |
| <input type="checkbox"/> Yanmar 3TNV88     |                                    | <input type="checkbox"/> Smartgen ALC708                    | <input type="checkbox"/> 4x480W LED       | <input type="checkbox"/> Water-jacket heater |
| <input type="checkbox"/> Kubota D1105-E2BG |                                    | <input type="checkbox"/> ComAp LTC 80                       |                                           | <input type="checkbox"/> Battery isolator    |
|                                            |                                    | <input type="checkbox"/> Wi-Fi router (4G SIM)              |                                           | <input type="checkbox"/> Fire Extinguisher   |
|                                            |                                    | <input type="checkbox"/> Remote control & monitoring system |                                           | <input type="checkbox"/> Wheel chocks        |
|                                            |                                    |                                                             |                                           | <input type="checkbox"/> Reflector set       |
|                                            |                                    |                                                             |                                           | <input type="checkbox"/> Trailer VIN number  |

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 |
|          |            |                  |

