

# LG45P

Powered by Perkins

| Model | Frequency/RPM | Standby Power | Prime Power |
|-------|---------------|---------------|-------------|
| LG45P | 60Hz/1800RPM  | 36KW          | 32.8KW      |
|       |               | 45KVA         | 41KVA       |

\* Voltages: 254/440V

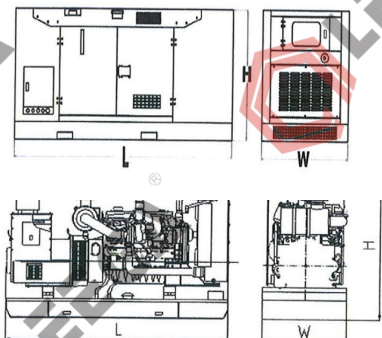
- (1) Prime Power: Ratings are as per DIN 6271, BS55114 and ISO-3046 with 10% overload capacity.
- (2) Standby Power: Power available at variable load for up to a max. of 500 hours during one year of which 300 hours may be for continuous use.
- (3) Operation at Altitude  $\leq$  1000m, Ambient temperature  $\leq$  40°C. If altitude higher than 1000m, each 300m will cause additional de-rating 4%.

## General Characteristics

|                    |                                      |
|--------------------|--------------------------------------|
| Model              | LG45P                                |
| Engine             | Perkins 1103A-33TG1                  |
| Alternator         | Stamford or Lega                     |
| Speed Control Type | Electrical                           |
| Phase              | 3                                    |
| System Voltage     | 12                                   |
| Frequency          | 60Hz                                 |
| Engine Speed(RPM)  | 1800                                 |
| Controller Model   | AMF IntelliLite 9 or DEESEA DSE6020) |

## Dimensions

| DIMENSION       | OPEN TYPE | SILENT TYPE |
|-----------------|-----------|-------------|
| Length (L)      | 1880mm    | 2250mm      |
| Width (W)       | 750mm     | 1080mm      |
| Height (H)      | 1480mm    | 1725mm      |
| Net Weight (KG) | 930KG     | 1300KG      |





### Engine Specification

|                             |              |      |
|-----------------------------|--------------|------|
| Brand                       | Perkins      |      |
| Model                       | 1103A-33TG1  |      |
| No. of Cylinders and Cycle  | 3L, 4 Stroke |      |
| Compression Ratio           | 17.25:1      |      |
| Displacement (L)            | 3.3          |      |
| Bore x Stroke (mm)          | 105 x 127    |      |
| Piston Speed (m/s)          | 7.62         |      |
| Air Intake Flow (m³/min)    | 3.7          |      |
| Exhaust Flow (m³/min)       | 8.8          |      |
| Net Engine Weight (kg)      | 420          |      |
| Starting System             | Electronic   |      |
| Engine Coolant Flow (L/min) | 151          |      |
| Base Output Power (kW)      | 48.8         |      |
| Fuel Consumption (L/h)      | 110% load    | 14.3 |
|                             | 100% load    | 12.9 |
|                             | 75% load     | 9.9  |
|                             | 50% load     | 7.1  |

|                   |   |        |
|-------------------|---|--------|
|                   | Minimum Pressure of Radiator Cap (kPA)          | 107    |
|                   | Coolant capacity-engine only(L)                 | 4.4    |
| Fuel System       | Fuel injection pump model                       | Rotary |
|                   | Max. oil temperature permitted in oil pan (°C ) | 125    |
|                   | Lubrication system Min. capacity (L)            | 6.2    |
| Exhaust System    | Max. Back Pressure (kPA)                        | 15     |
| Electrical System | Starter (V)                                     | 12     |
|                   | Battery charging system (A)                     | 65     |



### Alternator Specification

|       |     |   |
|-------|-----|---|
| Poles | No. | 4 |
|-------|-----|---|

|                                |  |                                |
|--------------------------------|--|--------------------------------|
| Insulation                     |  | Class" H"                      |
| Enclosure (according IEC-34-5) |  | IP23                           |
| Exciter system                 |  | Self-excited                   |
| Voltage regulator              |  | A.V.R. (Electronic)            |
| Bracket type                   |  | Single bearing                 |
| Coupling system                |  | Flexible disc                  |
| Coating type                   |  | Standard (Vacuum impregnation) |

\*Alternator meets BS EN 60034 and the relevant section of other international standards such as BS5000, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2 and AS1359.

## Options

### Engine

- Jacket Water Preheater
- Oil Preheater

### Generator Sets

- Tools with the machine

### Fuel System

- Low fuel level alarm
- Automatic fuel feeding system
- Fuel T-valves

### Control Panel

- Remote control panel
- ATS
- Remote controller
- Synchronizing controller

### Alternator

- Winding temperature measuring instrument
- Alternator Preheater
- Anti-damp and anti-corrosion treatment
- Anti-condensation heater

### Canopy

- Rental type canopy
- Trailer

### Exhaust System

- Protection board from heat

### Cooling System

- Front heat protection
- Coolant (-30°C)

### Lubricating System


- With machine oil

Note: This drawing is provided for reference only and should not be used for planning installation. Contact your



Standard Controller (ComAp AMF20 or DEEPSEA DSE6020)

Auto/Start/Stop Control

|                           |  |  |
|---------------------------|--|--|
| Control                   | Engine Cool Down Timer<br>Warm - up Timer<br>Load Switching Timer<br>Engine Cycle Crank  |                       |
| Indications               | Operating Hours<br>3 Phase Generator Voltage Sensing & Monitoring<br>Current Protection & Monitoring<br>Power Measurement (kW, kVA, kVA <sub>r</sub> , kWh, kVAh, pf)<br>Frequency Monitoring (Hz)<br>Oil Pressure/Coolant Temperature/Fuel Level Monitoring<br>Battery Voltage Monitoring (DC)<br>Alarm (Acknowledge) | AMF IntelliLite 9<br> |
| Warning & Shutdown Alarms | Generator Over/Under Voltage & Frequency<br>Crank Disconnect (Failure to Start)<br>Under/Over Speed<br>Over Current<br>Low oil pressure<br>High Water Temperature<br>Low Fuel Level<br>Low Water Level   | DSE6020  |
| Features                  | IP 65 (if ordered with gasket)<br>Basic Scheduler<br>8 - 35V DC Supply<br>Digital Inputs(4) - Outputs(4 MPU/ 6 CAN)<br>Event Log (5 shutdowns)   |  |

All data is subject to change without notice. Sorry for inform.



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