

# LG605DY Powered by Doosan

| Model   | Frequency/RPM | Standby Power | Prime Power |
|---------|---------------|---------------|-------------|
| LG605DY | 50Hz/1500RPM  | 484KW         | 440KW       |
|         |               | 605KVA        | 550KVA      |

\* Voltages : 230/400

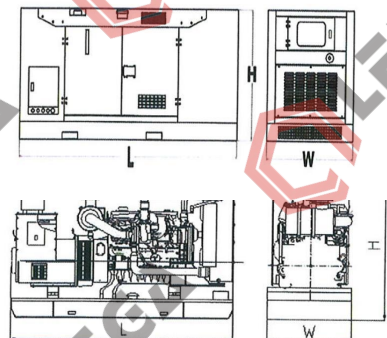
- (1) Prime Power: Ratings are as per DIN 6271, BS55114 and ISO-3046 with 10% overload capacity.
- (2) Standby Power: Power available at variable load for up to a max. of 500 hours during one year of which 300 hours may be for continuous use.
- (3) Operation at Altitude  $\leq$  1000m, Ambient temperature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

## General Characteristics

|                    |                                       |
|--------------------|---------------------------------------|
| Model              | LG605DY                               |
| Engine             | DOOSAN DP180LA                        |
| Alternator         | Stamford or Lega                      |
| Speed Control Type | Electrical                            |
| Phase              | 3                                     |
| System Voltage     | 24                                    |
| Frequency          | 50Hz                                  |
| Engine Sped(RPM)   | 1500                                  |
| Controller Model   | AMF IntelliLite 9 or DEEPSEA DSE6020) |

## Dimensions

| DIMENSION       | OPEN TYPE | SILENT TYPE |
|-----------------|-----------|-------------|
| Length (L)      | 3200mm    | 4550mm      |
| Width (W)       | 1750mm    | 1850mm      |
| Height (H)      | 2150mm    | 2440mm      |
| Net Weight (KG) | 3860KG    | 5200kg      |



### Engine Specification

|                            |               |       |
|----------------------------|---------------|-------|
| Brand                      | DOOSAN        |       |
| Model                      | DP180LA       |       |
| No. of Cylinders and Cycle | 10V, 4 Stroke |       |
| Compression Ratio          | 15:1          |       |
| Displacement (L)           | 18.273        |       |
| Bore x Stroke (mm)         | 128 x 142     |       |
| Piston Speed (m/s)         | 7.1           |       |
| Air Intake Flow (L/s)      | 515           |       |
| Exhaust Flow (L/s)         | 1600          |       |
| Net Engine Weight (kg)     | 1250          |       |
| Starting System            | Electronic    |       |
| Engine Coolant Flow (L/s)  | 9.83          |       |
| Base Output Power (kW)     | 502           |       |
| Fuel Consumption (L/h)     | 100% load     | 123.6 |
|                            | 75% load      | 94.2  |
|                            | 50% load      | 64.8  |

|                    |   |                          |
|--------------------|---|--------------------------|
| Cooling System     | Thermostat adjusting temperature (°C )          | 71-85                    |
|                    | Minimum Pressure of Radiator Cap (kPA)          | 49                       |
|                    | Coolant capacity-engine only(L)                 | 21                       |
| Fuel System        | Maximum Restriction at Lift Pump (kPa)          | 30                       |
|                    | Low idle (kPA)                                  | 100                      |
| Lubricating System | Rated speed (kPA)                               | 250                      |
|                    | Max. oil temperature permitted in oil pan (°C ) | 120                      |
|                    | Lubrication system Min. capacity (L)            | 23                       |
|                    | Exhaust System                                  | Max. Back Pressure (kPA) |
| Electrical System  | Starter (V)                                     | 24                       |
|                    | Battery charging system (A)                     | 45                       |

### Alternator Specification

|   |  |  |
|---|--|--|
| F |  |  |
|---|--|--|

|                                |  |                                |
|--------------------------------|--|--------------------------------|
| Connection type (standard)     |  | VOLTAGE STAR                   |
| Insulation                     |  | Class" H"                      |
| Enclosure (according IEC-34-5) |  | IP23                           |
| Exciter system                 |  | Self-Excited or P.M.G.         |
| 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)

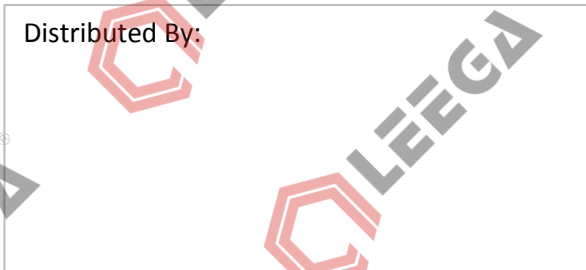
|                           |   |  |
|---------------------------|---|--|
| Control                   | Emergency Stop Pushbutton/ Alarm<br>Engine Cool Down Timer<br>Warm - up Timer<br>Load Switching Timer<br>Engine Cycle Crank   |             |
| Indications               | Operating Hours<br>3 Phase Generator Voltage Sensing & Monitoring<br>Current Protection & Monitoring<br>Power Measurement (kW, kVA, kVAR, 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  |
| 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  | <br>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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