



LG813DY Powered by Doosan

| Model | Frequency/RPM | Standby Power | Prime Power |
|---------|---------------|---------------|-------------|
| LG813DY | 50Hz/1500RPM | 650KW | 590KW |
| | | 813KVA | 738KVA |

* Voltages * Voltages : 230/400

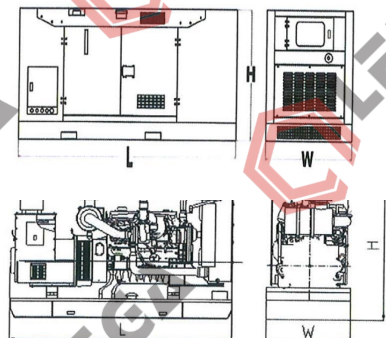
- (1) Prime Power: Ratings are as per DIN 6271, BS55114 and ISO-3046 with 10% overload capacity.
- (2) Standby Power: Power available at variable load for up to a max. of 500 hours during one year of which 300 hours may be for continuous use.
- (3) Operation at Altitude \leq 1000m, Ambient temperature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

General Characteristics

| | |
|--------------------|--------------------------------------|
| Model | LG813DY |
| Engine | DOOSAN DP222LC |
| 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) | 3500mm | 4950mm |
| Width (W) | 3640mm | 1850mm |
| Height (H) | 2180mm | 2524mm |
| Net Weight (KG) | 4120kg | 6330kg |



Engine Specification

| | | |
|----------------------------|---------------|-------|
| Brand | DOOSAN | |
| Model | DP222LC | |
| No. of Cylinders and Cycle | 12V, 4 Stroke | |
| Compression Ratio | 15:1 | |
| Displacement (L) | 21.927 | |
| Bore x Stroke (mm) | 128 x 142 | |
| Piston Speed (m/s) | 7.1 | |
| Air Intake Flow (L/s) | 696.67 | |
| Exhaust Flow (L/s) | 1666.67 | |
| Net Engine Weight (kg) | 1420 | |
| Starting System | Electronic | |
| Engine Coolant Flow (L/s) | 9.83 | |
| Base Output Power (kW) | 657 | |
| Fuel Consumption (L/h) | 100% load | 161.0 |
| | 75% load | 119.1 |
| | 50% load | 79.3 |

| | | |
|--------------------|---|--------------------------|
| Cooling System | Thermostat adjusting temperature (°C) | 71-85 |
| | Minimum Pressure of Radiator Cap (kPA) | 49 |
| | Coolant capacity-engine only(L) | 23 |
| 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) | 27 |
| | 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 | | 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

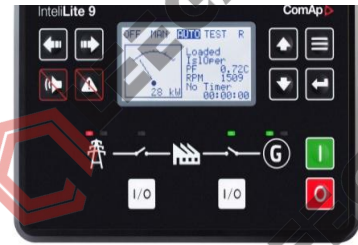
- With machine oil

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



AMF IntelliLite 9



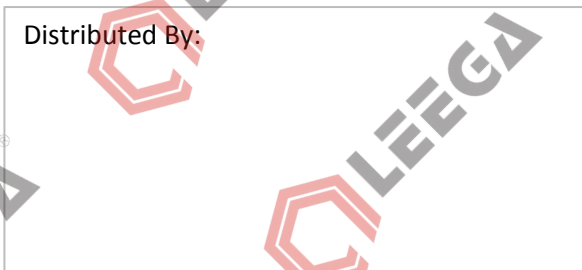
DSE6020

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