

# LG500D<sup>®</sup> Powered by DOOSAN

Model	Frequency/RPM	Standby Power	Prime Power
LG500DY	60Hz/1800RPM	400KW	360KW
		500KVA	450KVA

\* Voltages : 440/254

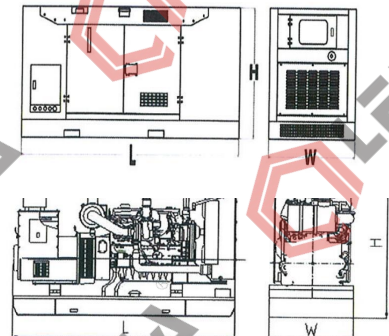
- (1) Prime Power: Ratings are as per DIN 6271, BS55114 and ISO-3046 with 10% overload capacity.
- (2) Standby Power: Power available at variable load for up to a max. of 500 hours during one year of which 300 hours may be for continuous use.
- (3) Operation at Altitude  $\leq$  1000m, Ambient temperature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

## General Characteristics

Model	LG500DY
Engine	DOOSAN DP158LC
Alternator	Stamford or Lega
Speed Control Type	Electrical
Phase	3
System Voltage	24
Frequency	60Hz
Engine Speed(RPM)	1800

## Dimensions

DIMENSION	OPEN TYPE	SILENT TYPE
Length (L)	3000mm	4350mm
Width (W)	1430mm	1600mm
Height (H)	1930mm	2260mm
Net Weight (KG)	3050kg	4140kg



### Engine Specification

Brand	DOOSAN	
Model	DP158LC	
No. of Cylinders and Cycle	8V, 4 Stroke	
Compression Ratio	15:01	
Displacement (L)	14.618	
Bore x Stroke (mm)	128 x 142	
Piston Speed (m/s)	8.5	
Air Intake Flow (m <sup>3</sup> /min)	32.3	
Exhaust Flow (m <sup>3</sup> /min)	93	
Net Engine Weight (kg)	1155	
Starting System	Electronic	
Engine Coolant Flow (L/min)	660	
Base Output Power (kW)	466	
Fuel Consumption (L/h)	100% load	111.5
	75% load	83.4
	50% load	57.7
	25% load	32.3

	Thermostat adjusting temperature (°C )	71-85
	Coolant capacity-engine only(L)	20
Fuel System	Fuel injection pump model	Bosch in-line "P" type
	Total Drain Flow (constant for all loads) (L/h)	315
Lubricating System	Low idle (kPA)	100
	Rated speed (kPA)	250
	Max. oil temperature permitted in oil pan (°C )	120
	Lubrication system Min. capacity (L)	13
Exhaust System	Max. Back Pressure (kPA)	5.9
Electrical System	Starter (V)	24
	Battery charging system (A)	45

### Alternator Specification

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Connection type (standard)		Series Star
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)

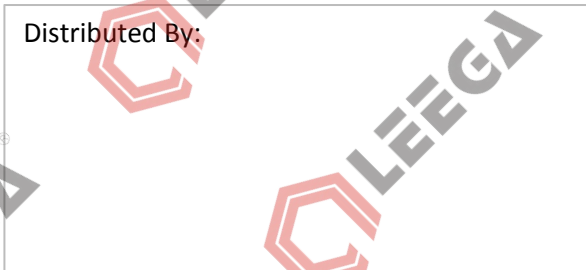
Control	Emergency Stop Pushbutton/ Alarm Engine Cool Down Timer Warm - up Timer Load Switching Timer Engine Cycle Crank	
Indications	Operating Hours 3 Phase Generator Voltage Sensing & Monitoring Current Protection & Monitoring Power Measurement (kW, kVA, kVAR, kWh, kVAh, pf) Frequency Monitoring (Hz) Oil Pressure/Coolant Temperature/Fuel Level Monitoring Battery Voltage Monitoring (DC) Alarm (Acknowledge)	AMF IntelliLite 9  
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	DSE6020
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)	

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



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