

LG853D[®] Powered by DOOSAN

Model	Frequency/RPM	Standby Power	Prime Power
LG853DY	60Hz/1800RPM	682KW	620KW
		853KVA	775KVA

* Voltages : 440/254

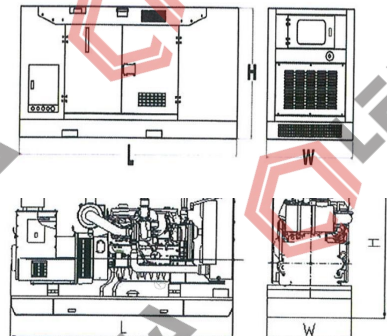
- (1) Prime Power: Ratings are as per DIN 6271, BS55114 and ISO-3046 with 10% overload capacity.
- (2) Standby Power: Power available at variable load for up to a max. of 500 hours during one year of which 300 hours may be for continuous use.
- (3) Operation at Altitude \leq 1000m, Ambient temperature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

General Characteristics

Model	LG853DY
Engine	DOOSAN DP222LB
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)	3500mm	4950mm
Width (W)	1680mm	1850mm
Height (H)	2180mm	2524mm
Net Weight (KG)	4070kg	6000kg



Engine Specification

Brand	DOOSAN	
Model	DP222LB	
No. of Cylinders and Cycle	12V, 4 Stroke	
Compression Ratio	15:01	
Displacement (L)	21.927	
Bore x Stroke (mm)	128 x 142	
Piston Speed (m/s)	8.5	
Air Intake Flow (m ³ /min)	52.1	
Exhaust Flow (m ³ /min)	115	
Net Engine Weight (kg)	1420	
Starting System	Electronic	
Engine Coolant Flow (L/min)	660	
Base Output Power (kW)	711	
Fuel Consumption (L/h)	100% load	172.7
	75% load	127.7
	50% load	87.1
	25% load	46.9

	Thermostat adjusting temperature (°C)	71-85
	Coolant capacity-engine only(L)	23
Fuel System	Fuel injection pump model	Bosch in-line "P" type
	Total Drain Flow (constant for all loads) (L/h)	630
Lubricating System	Low idle (kPA)	100
	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)	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.



Distributed By:

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