



# JIANGSU LONGEN POWER TECHNOLOGY CO., LTD.

## Diesel Generating Set LGDO-580

50Hz

### General Features

- **Engine** DP158LDF DOOSAN Made in Korea
- **Alternator** ECO40 3S4A MeccAlte Made in China
- **Controller** DSE7320 Deepsea Made in UK

Prime power 420kW/525kVA

Standby power 464kW/580kVA



- Electric speed control
- 24V starting batteries, maintenance-free type, connecting cables
- Equipped with CHINT MCCB; ABB in Option
- Equipped with industrial silencer and flexible exhaust hose
- Radiator 40°C max, fans are driven by belt with safety guard

- 24V charge dynamo
- Equipped with 8-hours operation base tank
- Design comply to ISO8528/GB2820
- Absorber (anti instant braking)
- User manual, Packing list

### General Ratings

Voltage	Power				Frequency (Hz)	Phase	P.F (COSφ)	Prime Current (A)
	Prime		Standby					
	kw	kva	kw	kva				
415/240V	420	525	464	580	50	3	0.8	730.4
400/230V	420	525	464	580	50	3	0.8	757.8
380/220V	420	525	464	580	50	3	0.8	797.7

#### Prime power

This rating is for the supply of continuous electrical power at variable load. A 10% overload capability is available for a period of 1 hour within each 12-hour period of operation.

#### Standby power

This rating is for the supply of continuous electrical power at variable load in the event of utility power failure. No overload is permitted.

#### Rated voltage

Available with customers requirements.

### Sales Promise

LONGEN POWER provides a full line of 100% brand new and high quality products.

Each and every unit is strictly factory tested before delivery.

Warranty is according to below standard conditions, subject to the earlier one.

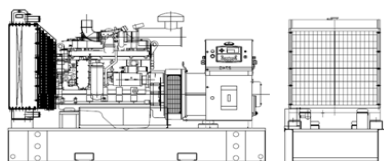
1. 15 months, counted on the day LONGEN sold to the first buyer.
2. One year after installation.
3. 1500 running hours.

Service and parts are available from LONGEN or distributors in your location.

### Dimension And Weight

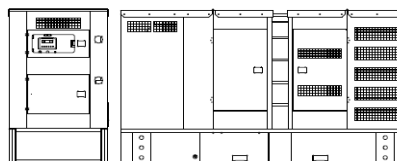
#### Open frame

Size(LxWxH): 3700X1350X2000(mm)  
N.W.: 4000 (kgs)



#### Silent with Canopy

Size(LxWxH): 4500X1600X2400(mm)  
N.W.: 4900 (kgs)





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### Engine Specifications

1	Engine model	DP158LDF
2	Engine manufacturer	Doosan
3	Number of cylinders	V8
4	Cylinder arrangement	Vertical in line
5	Cycle	4 stroke
6	Aspiration	Turbocharged & Intercooled (Air to Air)
7	Bore×Stroke(mm×mm)	128 x 142
8	Displacement (Liter)	14.618
9	Compression Ratio	15:1
10	Prime power/speed (kW/RPM)	464/1500RPM
11	Standby power/speed (kW/RPM)	510/1800RPM
12	Speed governor	Electric
13	Cooling system	Water-cooled
14	Coolant capacity (engine only) (L)	20
15	Steady speed droop (%)	≤5%
16	Total lubrication system capacity (L)	22
17	Oil consumption (% of fuel)	<0.15%
18	Fuel consumption at 100% load (L/H)	115.1
19	Fuel consumption at 75% load (L/H)	83.4
20	Fuel consumption at 50% load (L/H)	55.1
21	Starter motor	24 V×7.0kW
22	Dynamo	27.5V×45A

### Alternator Specifications

Compliance with GB755,BS5000,VDE0530,NEMAMG1-22,IED34-1,CSA22.2 and AS1359

1	Alternator model	ECO40 3S4A
2	Alternator manufacturer	MeccAlte
3	Exciter type	Single bearing, Brushless, Self-excited
4	Rated output prime power	500KVA
5	Rated speed	1500 RPM
6	Rated frequency	50 Hz
7	Phase	3
8	Rated voltage	400V
9	Power factor	0.8
10	Voltage adjust range	≥5%
11	Voltage regulation NL-FL	≤±1%
12	Insulation grade	H
13	Protection grade	IP23

#### Alternator option

Mecc Alte, Stamford, Longen

### Main Electrical Performance Data

Stable Regulation rate	Voltage			Frequency			
	Fluctuation	Recover time	Instantaneous Regulating rate	Stable regulation rate	Instantaneous regulating rate	Recover time	Fluctua-tion
+/-2.5%	0.5%	1.5s	+20%/-15%	+5%	+/-10%	5S	0.5%






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### Control System

Deepsea (UK)	Model	DSE7320
<b>Protection</b>	<b>Parameter</b>	<b>PHOTO</b>
<ul style="list-style-type: none"> <li>• Low oil pressure</li> <li>• High water temp</li> <li>• Over speed</li> <li>• over crank</li> <li>• Over load</li> <li>• Over/low volt</li> <li>• Over/low frequency</li> <li>• Battery charge failure</li> </ul>	<ul style="list-style-type: none"> <li>• Volt</li> <li>• current</li> <li>• power</li> <li>• speed</li> <li>• frequency</li> <li>• oil pressure</li> <li>• oil temp</li> <li>• power factor</li> <li>• running time</li> <li>• water temp</li> <li>• battery voltage</li> </ul>	

### Option

#### Generator Set

- Trailer generator set
- ABB MCCB circuit breaker
- 50°C Radiator

#### Fuel system

- 12 hours base fuel tank
- 24 hours base fuel tank
- Dual wall base fuel tank
- External fuel tank

#### Exhaust system

- Residential exhaust silencer

#### Alternator

- PMG excitation
- Anti Condensation Heater

#### For cold area

- Water heater
- Oil heater
- Rapid water preheater (diesel burner)

#### Auto system

- Remote Control panel
- ATS control cabinet
- Paralleling System

External ATS



Water Heater



Oil Heater



Paralleling System



### Contact Us

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LONGEN POWER reserves the right to change the specifications and design without notice.

