

# LG220P Powered by Perkins

Model	Frequency/RPM	Standby Power	Prime Power
LG220P	50Hz/1500RPM	176KW	160KW
		220KVA	200KVA

\* Voltages: 230/400V

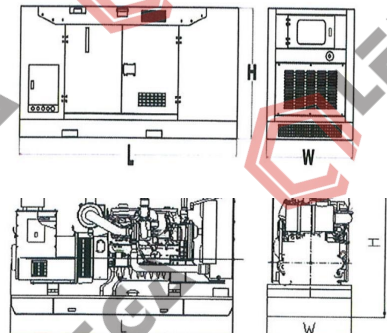
- (1) Prime Power: Ratings are as per DIN 6271, BS55114 and ISO-3046 with 10% overload capacity.
- (2) Standby Power: Power available at variable load for up to a max. of 500 hours during one year of which 300 hours may be for continuous use.
- (3) Operation at Altitude  $\leq 1000m$ , Ambient temperature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

## General Characteristics

Model	LG220P
Engine	Perkins 1106A-70TAG4
Alternator	Stamford or Lega
Speed Control Type	Electrical
Phase	3
System Voltage	12
Frequency	50Hz
Engine Speed(RPM)	1500
Controller Model	

## Dimensions

DIMENSION	OPEN TYPE	SILENT TYPE
Length (L)	2400mm	3500mm
Width (W)	1000mm	1080mm
Height (H)	1600mm	2120mm
Net Weight (KG)	1450KG	2300kg



Engine Specification		
Brand	Perkins	
Model	1106A-70TAG4	
No. of Cylinders and Cycle	6L, 4 Stroke	
Compression Ratio	16:01	
Displacement (L)	7.01	
Bore x Stroke (mm)	105x 135	
Piston Speed (m/s)	6.8	
Air Intake Flow (m <sup>3</sup> /min)	12.6	
Exhaust Flow (m <sup>3</sup> /min)	34.6	
Net Engine Weight (kg)	788	
Starting System	Electronic	
Engine Coolant Flow (l/min)	142	
Base Output Power (kW)	173.9	
Fuel Consumption (L/h)	110% load	49.4
	100% load	45.8
	75% load	34.7
	50% load	23.1
Cooling System	Max.coolant cycling resistance exterior engine(kPA)	
	Thermostat adjusting temperature (°C )	
	Minimum Pressure of Radiator Cap (kPA)	100
	Coolant capacity-engine only(L)	9.5
Fuel System	Fuel injection pump model	Mechanical
	Maximum Restriction at Lift Pump (kPa)	
	Maximum Fuel Inlet Temperature (°C )	46
	Total Drain Flow (constant for all loads) (L/h)	
Lubricating System	Low idle (kPA)	
	Rated speed (kPA)	
	Max. oil temperature permitted in oil pan (°C )	125
	Lubrication system Min. capacity (L)	12.4
Exhaust System	Max. Back Pressure (kPA)	6
Electrical System	Starter (V)	12
	Battery charging system (A)	

## Alternator Specification

Poles	No.	4
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	<ul style="list-style-type: none"> <li>Auto/Start/Stop Control</li> <li>Emergency Stop Pushbutton/ Alarm</li> <li>Engine Cool Down Timer</li> <li>Warm - up Timer</li> <li>Load Switching Timer</li> <li>Engine Cycle Crank</li> </ul>	
Indications	<ul style="list-style-type: none"> <li>Operating Hours</li> <li>3 Phase Generator Voltage Sensing &amp; Monitoring</li> <li>Current Protection &amp; Monitoring</li> <li>Power Measurement (kW, kVA, kVA<sub>r</sub>, kWh, kVA<sub>h</sub>, pf)</li> <li>Frequency Monitoring (Hz)</li> <li>Oil Pressure/Coolant Temperature/Fuel Level Monitoring</li> <li>Battery Voltage Monitoring (DC)</li> </ul>	AMF IntelliLite 9
Warning & Shutdown Alarms	<ul style="list-style-type: none"> <li>Alarm (Acknowledge)</li> <li>Generator Over/Under Voltage &amp; Frequency</li> <li>Crank Disconnect (Failure to Start)</li> <li>Under/Over Speed</li> <li>Over Current</li> <li>Low oil pressure</li> <li>High Water Temperature</li> <li>Low Fuel Level</li> <li>Low Water Level</li> </ul>	
Features	<ul style="list-style-type: none"> <li>IP 65 (if ordered with gasket)</li> <li>Basic Scheduler</li> <li>8 - 35V DC Supply</li> <li>Digital Inputs(4) - Outputs(4 MPU/ 6 CAN)</li> <li>Event Log (5 shutdowns)</li> </ul>	DSE6020

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

Distributed By:

Fujian Everstrong Lega Power Equipments Co., Ltd  
 Fuqing Hong Kuan Industry Zone, Fuzhou, Fujian  
 Province, China  
 Tel: +86-591-8385 3032  
 Fax: +86-591-8385 3130  
 Email: sales@legapower.com  
 Web: www.legapower.com

 **We are always Available**