



# DIESEL GENERATOR SET



MODEL	P220	
Standby Power (50HZ)	176KW/220KVA	
Prime Power (50HZ)	160KW/200KVA	
Open type	2700*1000*1720mm/2000 kg	
Soundproof Type	3900*1600*2200 mm/3400 kg	
20ft container type	6058*2438*2591mm/5000 kg	
Fuel tank 450L (8 hours)		

## Features

- Compact structure with high-strength chassis;
- Easy operation and maintenance, Low cost;
- Excellent performance damping system;
- Compliance with international electrical safety standards of electrical system;
- High-performance maintenance-free batteries with isolation switch
- 50 Radiator;
- Top lifting, Forklift bottom hole design, easy to transport;
- Absorber;
- Convenient power output interface;
- Customized design for user;
- Ripple flex exhaust pipe, exhaust siphon, flange, Industrial muffler;
- Dry type air filter, fuel filter, oil filter.

## Genset Technical Data

Rated voltage	400 V
Phase	3
Noise	@ 7m 70dB
Fuel consumption of 100% load	45 Litres/h
Fuel consumption of 75% load	34 Litres/h
Voltage regulation rate	≤±1%
Random voltage variation	≤±1%
Frequency regulation rate	≤±5%
Random frequency variation	≤±0.5%

## Engine Specifications

Engine model	1506A-E88TAG1
Engine manufacturer	PERKINS
Number of cylinders	6
Cylinder arrangement	Vertical in-line
Cycle	Four stroke
Aspiration	Turbocharged, aftercooled
Bore Stroke (mm mm)	112 x 149
Displacement (Liter)	8.8
Compression Ratio	16.1:1
Prime power/speed	178KW / 1500rpm
Standby power/speed	196KW / 1500rpm
Speed governor	Electrical
Cooling system	Forced Water Cooling Cycle
Steady speed droop (%)	≤1%
Total lubrication system capacity (L)	41
Coolant capacity (L)	35
Fuel consumption at 100% load	197(g/kWh) (at 1500RPM)
Starter motor	DC 24V
Alternator	DC 24V

## Alternator Specifications :- GP/STAMFORD/LEROY SOMER

Model	274H
Prime power/speed	176KW
Standby power/speed	160KW
Connecting Type	3 Phase and 4 Wires, "Y" type connecting
Efficiency (%)	93,3%
Rated speed	1500 RPM
Rated frequency	50 Hz
Phase	3
Rated voltage	400 V
Exciter type	Self excitation, Brushless
Power factor	0,8
Voltage adjust range	≥5%
Voltage regulation NL-FL	≤±1%
Insulation grade	H
Protection grade	IP23

**Optional**

**Fuel System**

- 12 / 24 hour base tank (single wall)
- Dual wall base fuel tank
- Outside fuel tank
- Automatic fuel feeding
- Fuel level indicate

**Canopy**

- Hired type
- Economy Oil heater
- Trailer



**DSE Control Panel**

DSE7320 is an advanced control module based on micro-processor, It is an Auto Mains (Utility) Failure Control Module(AMF), have been designed to start and stop generating sets that include electronic And non-electronic engines. Include the additional capability of being able to monitor a mains (utility) supply. when main is not available, It can automatically start the engine and close generating sets breaker automatically, Accurately measure various operational parameters and display all values and alarms information on the LCD. In additional, it can automatically open breaker, and shutdown the engine after the main supply recovers.

**The control module display**

- Generator voltage
- Generator frequency
- Battery voltage
- Engine speed
- Load current
- Generator KVA, KW, PF
- Engine run-time Hours
- Engine oil pressure
- Engine coolant temperature
- Real time clock for time and date, overall runtime

**Main Features**

- AMF and ATS and communication and expansion function
- Designed to work with electronic or non-electronic or gas engine simultaneously. (support many kinds of engines ECU).
- Manual, Automatic, Test and remote control mode selectable.
- Monitoring and measuring operational parameters of the mains supply and genset.
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections and multiple parameters display.
- Includes 12 inputs and eight outputs. 8 inputs are configurable and 4 outputs are configurable.
- Can be programmed using the front panel or by using the PC software.
- Support twelve languages. The language was edited by customer.
- Graded protection: pre-alarm, shutdown and electrical trip, flexible setting.
- The module can be pre-set for four operating modes and protecting parameters.
- Add DSE860 or DSE865 module, internet network monitoring can be realized.
- The firmware can be updated automatically, so customer can have the latest version.