

EP Series

WPS1250S

— **Generator Set Specification**



Super Quiet, Superior Life!



WPS1250S



3-Phase, 50Hz@1500RPM

| | Voltage | kW | kVA | Amps |
|--------------------------------------|---------|--------|--------|--------|
| Prime Power | 380 | 1000 | 1250 | 1899.2 |
| | 400 | 1000 | 1250 | 1804.3 |
| | 415 | 1000 | 1250 | 1739.1 |
| | 440 | 1000 | 1250 | 1640.2 |
| Standby Power | 380 | 1111.1 | 1388.9 | 2110.3 |
| | 400 | 1111.1 | 1388.9 | 2004.7 |
| | 415 | 1111.1 | 1388.9 | 1932.3 |
| | 440 | 1111.1 | 1388.9 | 1822.5 |
| Noise Level at 7 meters (dBA) | | | 75.6 | |

Notes:

- 1) Ambient reference conditions: 1,000 mbar, 27°C, 30% relative humidity;
- 2) Standby Power: the maximum power available under varying loads. Only for standby and emergency use. No overload is permissible. Prime Power: the maximum power available under varying loads for continuous operation. A 10% overload is permissible for 1 hour every 12 hours.

| Features | Benefits |
|--|---|
| <ul style="list-style-type: none"> With all the advantages of soundproofed generators. Optimal unit protection with minimum size. Fluid containment design for greater environmental protection. Sound attenuated to minimize impact on local environment. Keeps all spillages contained inside enclosure avoiding external site. | <ul style="list-style-type: none"> Easy to transport. Ease of operation. No need of installation. Suitable for outdoor use. |

Performance Specification and Craftwork

| Performance Specification | | Telephone Interference, Electromagnetism | |
|---|------------------|---|-----|
| Efficiency of Rated Power | 96.3% | TIF | ≤50 |
| Time needed from start-up to full load (inductive) | 125 seconds | THF | ≤2% |
| Time needed from start-up to 50% load (inductive) allowed | 8 seconds | Radio interference in compliance with BS800 and VED LEVELS G and N. | |
| 1.1 times overload operation time (hour) | 1 | Craftwork <ul style="list-style-type: none"> • Steel base frame with AV mounting • standard 8h fuel tank with flexible rubber fuel tube, fuel level indicator and drainage • Overall sprayed powder coating • Whole set documents, including Installation Manual, Operation Manual, Spare Parts Catalog, Circuit Diagram | |
| 2.0 time overload operation time (minute) | 1 | | |
| Voltage Regulation, steady state | ≤±1% | | |
| Voltage Regulation, transient state | 20%-15% | | |
| Voltage Settle Time | ≤5 seconds | | |
| Voltage Fluctuation Ratio | 0.5% | | |
| Frequency Regulation, steady state | ±0.5% adjustable | | |
| Frequency Regulation, transient state | ±5% | | |
| Frequency Settle Time | 5 seconds | | |
| Frequency Fluctuation Ratio | 0.5% | | |
| Recovery Time | 0.5 seconds | Criterion <ul style="list-style-type: none"> • ISO3046, ISO8528, BS4999, BS5514, • BS5000PT99、AS1359, IEC34 • UTE5100, VDE0530 • ISO9001:2000 | |

WPS1250S

| Engine Specification | | Alternator Specification | |
|-----------------------------|---------------------|---|----------------------------|
| Brand | Perkins (Uk) | Brand | Leroy Somer |
| Model | 4012-46TWG2A | Model | LSA50.2M6 |
| No. of Cylinders and Cycle | 12L, 4 Stroke | Rated Output (Kva) | 1250 |
| Induction System | TCA | Ratedcurrent (A) | 1804.3 |
| Compression Ratio | 13.6: 1 | Exciter | Brushless |
| Displacement (L) | 45.8 | Thf(Bs En60034- 1) | <2% |
| Bore X Stroke(Mm) | 160 X 190 | Bearing Number | Single |
| Ambient Temp (°C) | 25 | Windings | 100% Copper |
| Continuous Rated Power (kW) | 1253 | Connection Type | Star Connection |
| Speed (rev/min) | 1500 | Insulation Class | H |
| Cooling Air Flow (m³/min) | 948 | Winding Pitch | 2/3 |
| Air Intake Flow (m³/min) | 102 | Amortisseur Winding | Full |
| Exhaust Gas Flow (m³/min) | 180 | A.V.R. Model | R448V50 |
| Exhaust Temp (°C) | 422 | Voltage Regulation (No Load- Full Load) | ± 1.0% |
| Starting System | Electronic | Underspeed Protection | Standard |
| Battery Voltage/Capacity | 24vdc/1600a/1600 | Protection | Ip23 |
| Fuel Consumption (L/H) | 110% Load | Phase Sequence | A(U), B(V), C(W) |
| | 100% Load | Tif (Nema Mg 1-22) | <50 |
| | 75% Load | Excitation System | Self-Excited, Pmg Optional |
| | 50% Load | Ambienttemp (°C) | 40 |
| Governor Type | E | Stator Rated Temp (°C) | 125 |

| Cooling System | | Fuel System | |
|---|---|---------------------------------|------------------------|
| Total Coolant Capacity | | Type Of Injection | Direct Injection |
| Face Area(Temperate/Tropical) (m²) | 2.63-2.967 | Fuel Injection Pump | Combined Unit Injector |
| Rows and Materials | 226 | Fuel Injector | Combined Unit Injector |
| Width of Matrix (Temperate/Tropical) (mm) | 1600/1805 | Nozzle Opening Pressure(MPa) | 23.4 |
| Height of Matrix (mm) | 1644 | Fuel Lift Pump | |
| Pressure Cap Setting (kPa) | 69 | Flow/Hour (L/h) | 1020 |
| Fan | Diameter(Temperate/Tropical) (mm) | Governor Type | Electronic |
| | | Lubricating System | |
| Drive Ratio | 1:1 / 1:0.9 | Lubricating Oil Capacity | |
| Number of Blades | 12 | Total System (L) | 177 |
| Material | Aluminium | Minimum (L) | 136 |
| Type | Engine Driver | Lubricating Oil Pressure | |
| Coolant | Total Capacity (Temperate/Tropical) (L) | Relief Valve Opens (kPa) | 400 |
| | | Normal Oil Temp (°C) | 95-105 |

| Exhaust System | | Electrical System | |
|--------------------------|---------|-----------------------|---------|
| Max. Back Pressure (kPa) | 5 | Alternator (A/V) | 40/24 |
| Exhaust Outlet Size (mm) | 2 X 254 | Starting Motor (kW/V) | 16.4/24 |

WPS1250S

Control System

PLC-702

DSE-702 key manual start module is a manual engine control module designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure.

Standard Control Function

- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection hold-off timer
- Charge Failure warning



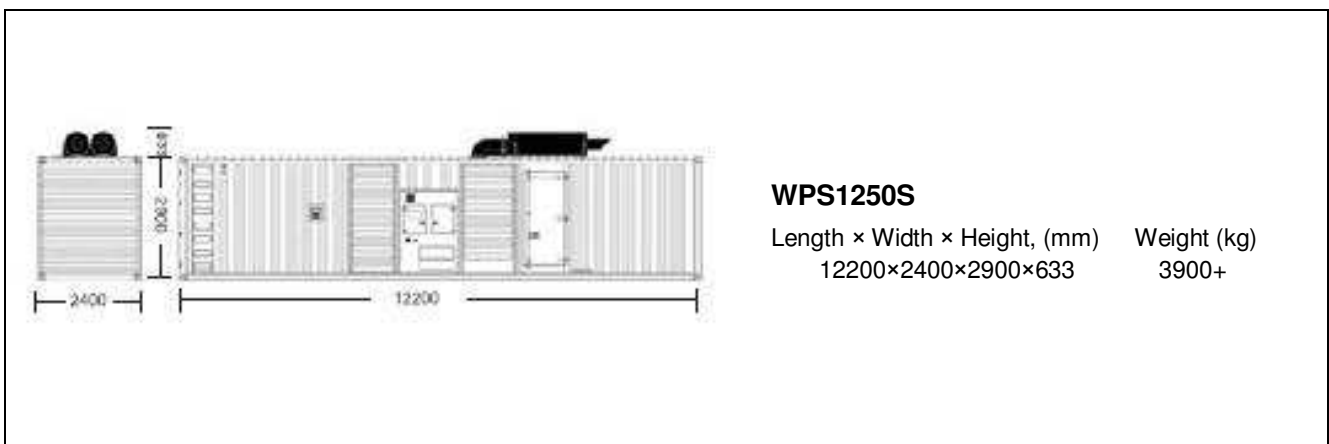
PLC-5220

DSE-5220 control panel is applied

- | Microprocessor control, with high stability and credibility
- | Mains supply and generator operation monitoring
- | Indicating operation status and fault conditions
- | Multiple protections; multiple parameters display, like pressure, temp.
- | Manual and automatic work mode selectable
- | Real time clock for time and date display, overall runtime display, 99 log entries
- | Overall power output display
- | Integral speed/frequency detecting, telling status of start, rated operation, overspeed
- | Communication with PC via RS485 OR RS232 interface, using MODBUS protocol.



Dimension and Weight



WPS1250S

Optional

| Engine | Alternator | Generator Set | Fuel System | Canopy |
|--|--|---|--|--|
| <ul style="list-style-type: none"> • Coolant heater | <ul style="list-style-type: none"> • Space heater • AVR PMG with regulator • Anti-damp and anti-corrosion treatment • Anti-condensation heater | <ul style="list-style-type: none"> • Tools with the machine | <ul style="list-style-type: none"> • Low fuel level alarm • Automatic fuel feeding system | |
| Lubricating System | Exhaust System | Cooling System | Control Panel | Voltages |
| <ul style="list-style-type: none"> • Oil with the machine | <ul style="list-style-type: none"> • Protection board from hotness • Low frequency silencer | <ul style="list-style-type: none"> • Front heat protection • 50°C radiator • Coolant (-30°C) | <ul style="list-style-type: none"> • Remote control panel • Automatic paralleling control panel • Automatic Transfer Switch (ATS) | <ul style="list-style-type: none"> • 415/240V • 400/230V • 380/220V • 220/127V • 200-115V |



Local Distributor