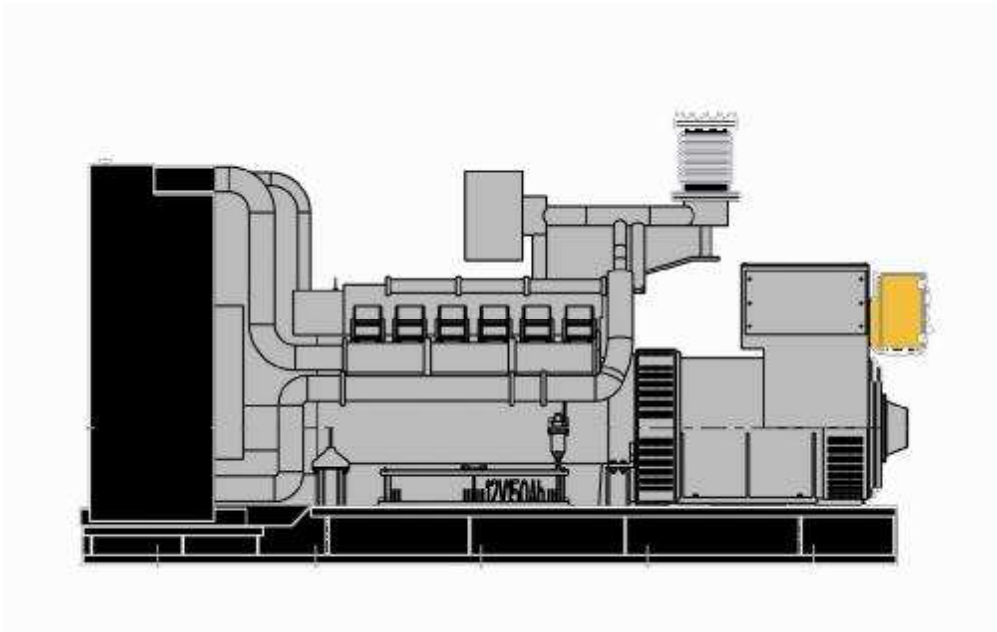


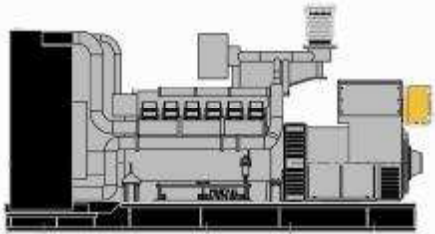
EP Series WPS1500

— Generator Set Specification



Your Partner for Power...

WPS1500



3-Phase, 50Hz@1500RPM

	Voltage	kW	kVA	Amps
Prime Power	380	1200	1500	2279.1
	400	1200	1500	2165.1
	415	1200	1500	2086.9
	440	1200	1500	1968.3
Standby Power	380	1333.3	1666.7	2532.3
	400	1333.3	1666.7	2405.7
	415	1333.3	1666.7	2318.7
	440	1333.3	1666.7	2187.0
Noise Level at 7 meters (dBA)			104	

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"> Excellent cooling system, reliable operation under harshest conditions. PLC-5220 control panel with AMF function. Leroy Somer Alternator, IP 23 class 'H' insulation. 	<ul style="list-style-type: none"> Function stability credibility, service convenience. Low operating cost results in optimal economy. Gets the job done wherever you are. Ease of installation, operation, and maintenance.

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 Criterion <ul style="list-style-type: none"> • ISO3046, ISO8528, BS4999, BS5514, • BS5000PT99、AS1359, IEC34 • UTE5100, VDE0530 • ISO9001:2000 	
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		

WPS1500

Engine Specification		Alternator Specification	
Brand	Perkins (UK)	Brand	Leroy Somer
Model	4012-46TAG2A	Model	LSA50.2VL8
No. of Cylinders and Cycle	12L, 4 Stroke	Rated Output (kVA)	1600
Induction System	TCA	Ratedcurrent (A)	2165.1
Compression Ratio	13.6: 1	Exciter	Brushless
Displacement (L)	45.84	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)	1505	Connection Type	Star Connection
Speed (Rev/Min)	1500	Insulation Class	H
Cooling Air Flow (L/s)	112	Winding Pitch	2/3
Air Intake Flow (m³/min)	112	Amortisseur Winding	Full
Exhaust Gas Flow (m³/min)	N/A	A.V.R. Model	R448V50
Exhaust Temp (°C)	58	Voltage Regulation (No Load- Full Load)	± 0.5%
Starting System	Electronic	Underspeed Protection	Standard
Battery Voltage/Capacity	24VDC/2000A/2000	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 (m²)	2.57	Fuel Injection Pump	Combined Unit Injector
Rows and Materials	4 Rows, Copper	Fuel Injector	Combined Unit Injector
Width of Matrix (mm)	1608	Injector Pressure (MPa)	140
Height of Matrix (mm)	1601	Fuel Lift Pump	
Pressure Cap Setting (KPa)	70	Flow/Hour (L/h)	1020
Fan	Diameter(Temperate/Tropical) (mm)	Governor Type	Electronic
		Lubricating System	
Drive Ratio	0.93:1	Lubricating Oil Capacity	
Number of Blades	12	Total System (L)	177
Material	Aluminium	Minimum (L)	136
Type	Axial Flow	Lubricating Oil Pressure	
Coolant	Total Capacity (Temperate/Tropical) (L)	Relief Valve Opens (KPa)	400
		Normal Oil Temp (°C)	105
	196/201		

Exhaust System		Electrical System	
Max. Back Pressure (Pa)	500	Alternator (A/V)	40/24
Exhaust Outlet Size (mm)	2 X 254	Starting Motor (kW/V)	16.4/24

WPS1500

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



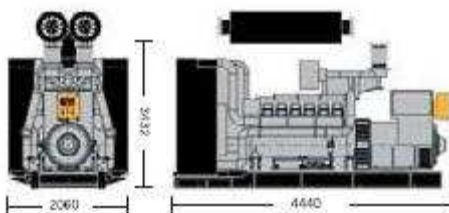
PLC-5220

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



WPS1500

Length × Width × Height, (mm) Weight (kg)
4850×2060×3380 9503

WPS1500

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 	<ul style="list-style-type: none"> • Container
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