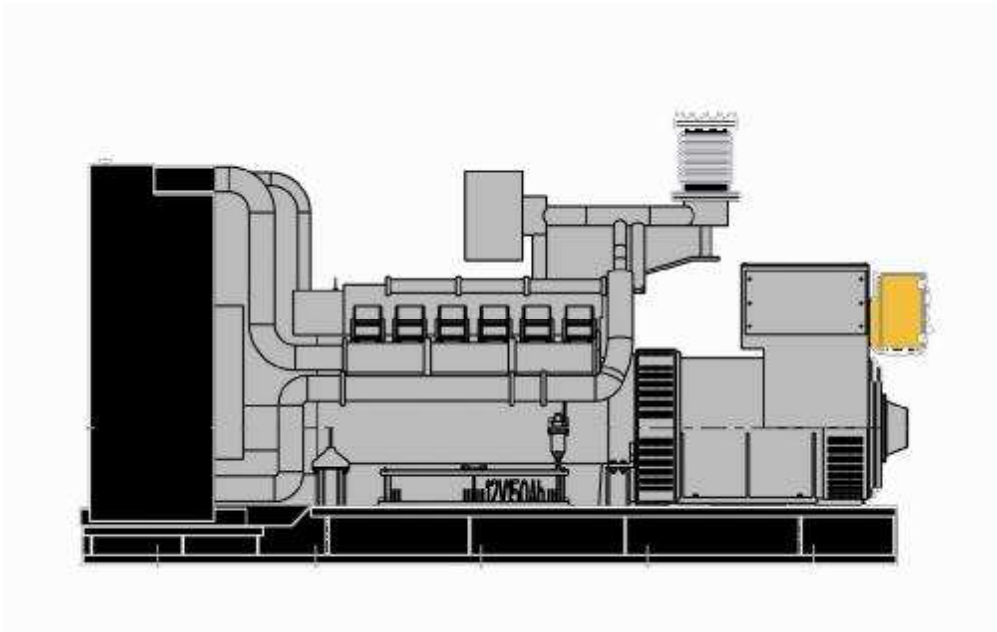


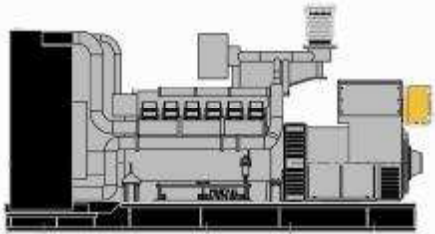
EP Series WPS2000

— Generator Set Specification



Your Partner for Power...

WPS2000



3-Phase, 50Hz@1500RPM

	Voltage	kW	kVA	Amps
Prime Power	380	1600	2000	3038.8
	400	1600	2000	2886.8
	415	1600	2000	2782.5
	440	1600	2000	2624.4
Standby Power	380	1777.8	2222.2	3376.4
	400	1777.8	2222.2	3207.6
	415	1777.8	2222.2	3091.7
	440	1777.8	2222.2	2916.0
Noise Level at 7 meters (dBA)			106	

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 	
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 	

WPS2000

Engine Specification		Alternator Specification	
Brand	Perkins (UK)	Brand	Leroy Somer
Model	4016TAG2A	Model	LSA51.2M60
No. of Cylinders and Cycle	16L, 4 Stroke	Rated Output (kVA)	2050
Induction System	TCA	Rated current (A)	2886.8
Compression Ratio	13.6: 1	Exciter	Brushless
Displacement (L)	61.1	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)	2058	Connection Type	Star Connection
Speed (Rev/Min)	1500	Insulation Class	H
Cooling Air Flow (L/s)	19	Winding Pitch	2/3
Air Intake Flow (m³/min)	147	Amortisseur Winding	Full
Exhaust Gas Flow (m³/min)	411	A.V.R. Model	R449
Exhaust Temp. (°C)	480	Voltage Regulation (No Load- Full Load)	± 0.5%
Exhaust Temp (°C)	<93	Underspeed Protection	Standard
Starting System	Electronic	Protection	Ip23
Fuel Consumption (L/h)	110% Load	Phase Sequence	A(U), B(V), C(W)
	75% Load	Tif (Nema Mg 1-22)	<50
	50% Load	Excitation System	Self-Excited, PMG Optional
	25% Load	Ambient temp (°C)	40
Governor Type	E	Stator Rated Temp (°C)	125

Cooling System		Fuel System	
Total system capacity		Type of injection	Direct
Electrounit(engine only) (L)	95	Fuel injector	Combined unit injector
Tropical / temperate	255/316	Injection pressure (bar)	234
Pressure cap setting (bar)	0.69	Fuel Lift Pump	
Diameter	4016TAG 1524mm	Flow/hour (L/h)	-
Diameter	4016TAG 1/2 1905mm	Delivery Pressure (bar)	3.0
Coolant pump speed and method of drive	1.4 x e rev/min gear driven	Governor Type	Electronic
Thermostat operating range (°C)	71-85	Lubricati System	
Max. static pressure head on pump (m)	7	Lubricating Oil Capacity	
Max. top temperature in crankcase (kPa)	98	Total System (L)	214
Shutdown switch setting (°C)	96 °C rising	Minimum (L)	147
		Lubricating Oil Pressure	
		-at 80°C temperature to bearing gallery (MPa)	0.34
		Normal temperature (°C)	105

Exhaust System		Electrical System	
Back Pressure (KPa)	3.0	Alternator (A/V)	40/24
Exhaust Outlet Size (mm)	2 X 254	Starting Motor (kW/V)	16.4/24

WPS2000

Control System

PLC-702HC

PLC-702HC 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



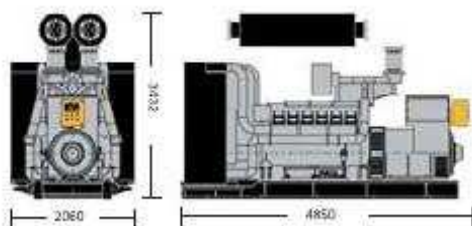
PLC-5220

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



WPS2000

Length × Width × Height, (mm) Weight (kg)
4850×2060×3432 10503

WPS2000

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