

EP Series WPS800S

— Generator Set Specification



Super Quiet, Superior Life!



WPS800S



3-Phase, 50Hz@1500RPM

	Voltage	kW	kVA	Amps
Prime Power	380	640	800	1215.5
	400	640	800	1154.7
	415	640	800	1113.0
	440	640	800	1049.8
Standby Power	380	711.1	888.9	1350.6
	400	711.1	888.9	1283.0
	415	711.1	888.9	1236.7
	440	711.1	888.9	1166.4
Noise Level at 7 meters (dBA)				74

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 the soundproof 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 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		

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Engine Specification		Alternator Specification	
Brand	Perkins (UK)	Brand	Leroy Somer
Model	4006-23TAG3A	Model	LSA49.1M75
No. of Cylinders and Cycle	6L, 4 Stroke	Rated Output (kVA)	800
Induction System	TCA	Rated current (A)	1154.7
Compression Ratio	13.6: 1	Exciter	Brushless
Displacement (L)	22.92	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)	730	Connection Type	Star Connection
Speed (rev/min)	1500	Insulation Class	Class H
Cooling Air Flow (m³/min)	1200	Winding Pitch	2/3
Air Intake Flow (m³/min)	69	Amortisseur Winding	Full
Exhaust Gas Flow (m³/min)	193	A.V.R. Model	R448
Exhaust Gas temperature Max.AfterTurbo (°C)	500	Voltage Regulation (no load- full load)	± 0.5%
Starting System	E	Underspeed Protection	Standard
Battery Voltage/Capacity	24VDC/1600A/1400	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	
Radiator		Type of injection	Direct
Face area (m²)	2.569	Fuel inject	Combined unit injector
Rows and materials	3 rows, aluminium	Injection pressure (bar)	1400
Width of matrix (mm)	1606	Fuel Lift Pump	
Height of matrix (mm)	1600	Flow/hour (L/h)	810
Pressure cap setting (kPa)	70	Delivery Pressure (kPa)	300
Fan		Lubricati System	
Diameter (mm)	1200	Lubricating Oil Capacity	
Drive Ratio	0.78 : 1	Total System (L)	113.4
Number of blades	6-8	Minimum (L)	90.7
Material	Steel	Lubricating Oil Pressure	
Type	Engine mounted	Oil relief values open(kPa)	300
Max. top temperature in crankcase (kPa)	98	Normal temperature (°C)	-
Thermostat operating range	71-85		
Max. static pressure head on pump (m)	7		

Exhaust System		Electrical System	
Max. back pressure (kPa)	-	Alternator (A/V)	40/28
Exhaust outlet size (mm)	2 X 152.4	Starting motor (kW)	7.5

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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



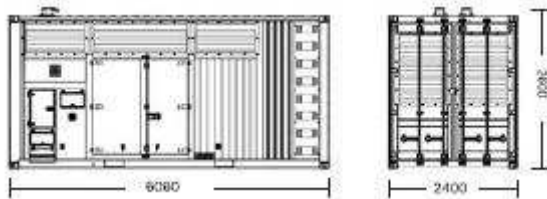
PLC-5220

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



WPS800S

Length × Width × Height, (mm) Weight (kg)
6060×2400×2600 2300+

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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"> • Trailer
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