

EP Series WPS600S

— Generator Set Specification



Super Quiet, Superior Life!



WPS600S



3-Phase, 50Hz@1500RPM

	Voltage	kW	kVA	Amps
Prime Power	380	480	600	911.6
	400	480	600	866.1
	415	480	600	834.7
	440	480	600	787.3
Standby Power	380	533.3	666.7	1012.9
	400	533.3	666.7	962.3
	415	533.3	666.7	927.5
	440	533.3	666.7	874.8
Noise Level at 7 meters (dBA)			72.6	

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"> Excellent cooling system, reliable operation under harshest conditions. PLC-5220 control panel with AMF function. With sound attenuated enclosures available with high protection against water and dust. Designed with safety in mind earth leakage protection. Leroy Somer Alternator, IP 23 class 'H' insulation. Equipped with a ladder (for generators 300-500 kVA),exterior fueling point,water tank inlet. 	<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		

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Engine Specification		Alternator Specification	
Brand	Perkins (UK)	Brand	Leroy Somer
Model	2806C-E18TAG1A	Model	LSA47.2L9
No. of Cylinders and Cycle	6L, 4 Stroke	Rated Output (kVA)	880
Induction System	TCA	Rated current (A)	793.9
Compression Ratio	14.5: 1	Exciter	Brushless
Displacement (L)	18.13	THF(BS EN60034- 1)	<2%
Bore x Stroke(mm)	145 x 183	Bearing number	Single
Ambient Temp (°C)	25	Windings	100% Copper
Continuous Rated Power kW)	591	Connection Type	Star Connection
Speed (rev/min)	1500	Insulation Class	Class H
Cooling Air Flow (L/min)	6.1	Winding Pitch	2/3
Air Intake Flow (m³/min)	40	Amortisseur Winding	Full
Exhaust Gas Flow (m³/min)	110	A.V.R. Model	R448
Exhaust Gas temperature (°C)	550	Voltage Regulation (no load- full load)	± 0.5%
Fuel temperature (°C)	40	Underspeed Protection	Standard
Starting System	E	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	Ambient Temp (°C)	40
Governor Type	E	Stator Rated Temp (°C)	125

Cooling System		Fuel System	
Radiator		Injection system	MEUI
Face Area (m²)	1.75	Injection pressure (MPa)	200
Rows and Materials	2 rows, aluminium		
Width of Matrix (mm)	1260	Fuel Lift Pump	
Height of Matrix (mm)	1390	Flow/hour (L/min)	413/457
Pressure Cap Setting (kPa)	70	Delivery Pressure (kPa)	600
Fan		Lubricati System	
Diameter (mm)	965	Lubricating Oil Capacity	
Drive Ratio	0.8 : 1	Total System (L)	62
Number of Blades	9	Minimum (L)	45
Material	Plastic	Lubricating Oil Pressure	
Type	Pusher	Oil pressure at bearings (kPa)	610
Coolant pump		Normal temperature (°C)	95-113
Speed	1.08 x e rev/min		
Method of drive	Gear		

Exhaust System		Electrical System	
Max. Back Pressure (kPa)	6.9	Alternator (A/V)	70/24
Exhaust Outlet Size (mm)	202	Starting Motor (kW)	9

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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



WPS600S

Length × Width × Height, (mm) Weight (kg)
4320×1400×2132 5043

WPS600S

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