

Widely applied in Telecom, Industry, Rental,
Outdoor Projects, Mining, Military, etc.

POWERink
Power Systems

EP Series WPS225S

— Generator Set Specification



NO: DT1222016S- 02

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Super Quiet, Superior Life!

CE



3-Phase, 50Hz@1500RPM				
	Voltage	kW	kVA	Amps
Prime Power	380	180	225	341.9
	400	180	225	324.8
	415	180	225	313.0
	440	180	225	295.2
Standby Power	380	200	250	379.8
	400	200	250	360.9
	415	200	250	347.8
	440	200	250	328.0
Noise Level at 7 meters (dBA)				70

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"> I Excellent cooling system, reliable operation under harshest conditions. I PLC-5220 control panel with AMF function. I With sound attenuated enclosures available with high protection against water and dust. I Designed with safety in mind earth leakage protection. I Leroy Somer Alternator, IP 23 class 'H' insulation. 	<ul style="list-style-type: none"> I Function stability credibility, service convenience. I Low operating cost results in optimal economy. I Gets the job done wherever you are. I 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		

Engine Specification			Alternator Specification		
Brand	Perkins (UK)		Brand	Leroy Somer	
Model	1306C-E87TAG4		Model	LSA46.2L6	
No. of Cylinders and Cycle	6L, 4 Stroke		Rated Output (kVA)	250	
Induction System	TCA		Rated current (A)	324.8	
Compression Ratio	16.9: 1		Exciter	Brushless	
Displacement (L)	8.7		THF(BS EN60034- 1)	<2%	
Bore x Stroke(mm)	116.6 x 135.9		Bearing number	Single	
Ambient Temp (°C)	25		Windings	100% Copper	
Continuous Rated Power (kW)	228		Connection Type	Star Connection	
Speed (rev/min)	1500		Insulation Class	Class H	
Cooling Air Flow (L/min)	375		Winding Pitch	2/3	
Air Intake Flow (m³/min)			Amortisseur Winding	Full	
Exhaust Gas Flow (m³/min)			A.V.R. Model	R448	
Exhaust Temp (°C)			Voltage Regulation (no load- full load)	± 0.5%	
Starting System	E		Underspeed Protection	Standard	
Battery Voltage/Capacity	24VDC/400A/400		Protection	IP23	
Fuel Consumption (L/h)	110% load		Phase Sequence	A(U), B(V), C(W)	
	100% load	48.5	TIF (NEMA MG 1-22)	<50	
	75% load	37.5	Excitation System	Self-excited, PMG optional	
	50% load	26.1	Ambient Temp (°C)	40	
Governor Type	E		Stator Rated Temp (°C)	125	

Cooling System			Fuel System		
Radiator			Type of Injection	Direct	
Face Area (m²)	0.6		Fuel injection pump	Bosch	
Rows and Materials	3 Brass		Fuel atomiser	Heui	
Width of Matrix (mm)	745		Nozzle opening pressure (MPa)	417	
Height of Matrix (mm)	750		Fuel Lift Pump		
Pressure Cap Setting (kPa)	68.9		120-150	180	
Fan			Pressure (kPa)	417	
Diameter (mm)	711.2		Governor Type	Electronic	
Drive Ratio	1.2 : 1		Lubricating System		
Number of Blades	7		Lubricating Oil Capacity		
Material	Plastic		Total System (L)	28.3	
Type	Pusher		Minimum (L)	26.4	
Coolant			Lubricating Oil Pressure		
Total System Capacity (L)	With Radiator (L)	37.2	Relief Valve Open(kPa)	552	
	Without Radiator (L)	12.8	Normal temperature (°C)	121	

Exhaust System			Electrical System		
Max. Back Pressure (kPa)	10.7		Alternator (V)	12/24	
Exhaust Outlet Size (mm)	-		Starting Motor (V)	12/24	

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 pannel 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

	<p>WPS225S</p> <p>Length × Width × Height, (mm) Weight (kg)</p> <p>3592×1300×1920 3073</p>
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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



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*Specification may change without prior notice.
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