

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

POWERink
Power Systems

EP Series WPS10S

— Generator Set Specification



NO: DT1222001S- 02

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Super Quiet, Superior Life!

CE



3-Phase, 50Hz@1500RPM				
	Voltage	kW	kVA	Amps
Prime Power	380	8	10	15.2
	400	8	10	14.4
	415	8	10	13.9
	440	8	10	13.1
Standby Power	380	9	11	16.9
	400	9	11	16.0
	415	9	11	15.5
	440	9	11	14.6
Noise Level at 7 meters (dBA)			58	

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	403D-11G	Model	LSA42.2VS0
No. of Cylinders and Cycle	3L, 4 Stroke	Rated Output (kVA)	11
Induction System	NA	Rated current (A)	14.4
Compression Ratio	23: 1	Exciter	Brushless
Displacement (L)	1.1	THF(BS EN60034- 1)	<2%
Bore x Stroke(mm)	77 x 81	Bearing number	Single
Ambient Temp (°C)	25	Windings	100% Copper
Continuous Rated Power (kW)	8.4	Connection Type	Star Connection
Speed (rev/min)	1500	Insulation Class	Class H
Combustion Air Flow (m³/min)	0.7	Winding Pitch	2/3
Cooling Air Flow (L/min)	27.3	Amortisseur Winding	Full
Exhaust Gas Flow (m³/min)	1.66	A.V.R. Model	SX460
Exhaust Temp (°C)	368	Voltage Regulation (no load- full load)	± 1.0%
Starting System	E	Underspeed Protection	Standard
Fuel Consumption (L/h)		Protection	IP23
110% load		Phase Sequence	A(U), B(V), C(W)
100% load	3	TIF (NEMA MG 1-22)	<50
75% load	2.3	Excitation System	Self-excited, PMG optional
50% load	1.7	Ambient Temp (°C)	40
Governor Type	Mechanical	Stator Rated Temp (°C)	125

Cooling System		Fuel System	
Radiator		Type of Injection	Indirect injection
Face Area (m²)	0.147	Fuel injection pump	Cassette type
Rows and Materials	2 row, Aluminium	Fuel inject	Pintle nozzle
Width of Matrix (mm)	334	Nozzle opening pressure (MPa)	14.7
Height of Matrix (mm)	440	Fuel Lift Pump	
Pressure Cap Setting (kPa)	90	Flow/hour (L/h)	63
Fan		Pressure (kPa)	10
Diameter (mm)	320	Governor Type	Mechanical
Drive Ratio	1.285 : 1	Lubricating System	
Number of Blades	7	Lubricating Oil Capacity	
Material	Plastic	Total System (L)	4.9
Type	Pusher	Minimum (L)	3.4
Coolant		Lubricating Oil Pressure	
Total System Capacity	With Radiator (L)	Relief Valve Open(kPa)	304-500
	Without Radiator (L)	Normal Oil Temp (°C)	125

Exhaust System		Electrical System	
Max. Back Pressure (kPa)	10.2	Alternator (A)	15/40
Exhaust Outlet Size		Starting Motor (kW)	1.1
Horizontal (mm)	34		
Vertical (mm)	40		

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

WPS10S

Length × Width × Height, (mm)	Weight (kg)
1912×850×1250	801

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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