

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



EP Series WPS900S

— Generator Set Specification



NO: DT1222027S- 02

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Super Quiet, Superior Life!





3-Phase, 50Hz@1500RPM

	Voltage	kW	kVA	Amps
Prime Power	380	720	900	1367.4
	400	720	900	1299.1
	415	720	900	1252.1
	440	720	900	1181.0
Standby Power	380	800	1000	1519.4
	400	800	1000	1443.4
	415	800	1000	1391.2
	440	800	1000	1312.2
Noise Level at 7 meters (dBA)			72.8	

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 With all the advantages of the soundproof generators. I Optimal unit protection with minimum size. I Fluid containment design for greater environmental protection. I Sound attenuated to minimize impact on local environment. I Keeps all spillages contained inside enclosure avoiding external site. 	<ul style="list-style-type: none"> I Easy to transport. I Ease of operation. I No need of installation. I 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		

Engine Specification			Alternator Specification	
Brand	Perkins (UK)		Brand	Leroy Somer
Model	4008TAG2A		Model	LSA49.1L10
No. of Cylinders and Cycle	8L, 4 Stroke		Rated Output (kVA)	910
Induction System	TCA		Rated current (A)	1299
Compression Ratio	13.6: 1		Exciter	Brushless
Displacement (L)	30.6		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)	719		Connection Type	Star Connection
Speed (rev/min)	1500		Insulation Class	Class H
Cooling Air Flow (L/min)	10		Winding Pitch	2/3
Air Intake Flow (m³/min)	69		Amortisseur Winding	Full
Exhaust Gas Flow (m³/min)	183		A.V.R. Model	R448
Fuel temperature (°C)	<98		Voltage Regulation (no load- full load)	± 0.5%
Exhaust Gas temperature Max.AfterTurbo (°C)	422		Underspeed Protection	Standard
Starting System	E		Protection	IP23
Fuel Consumption (L/h)	110% load		Phase Sequence	A(U), B(V), C(W)
	100% load	194	TIF (NEMA MG 1-22)	<50
	75% load	142	Excitation System	Self-excited, PMG optional
	50% load	97	AmbientTemp (°C)	40
Governor Type	E		Stator Rated Temp (°C)	125

Cooling System			Fuel System	
Total system capacity			Type of injectio006E	Direct
Electrounit(engine only) (L)	48		Fuel injector	Combined unit injector
Tropical / temperate	149/143		Injection pressure (bar)	234
Pressure cap setting (kPa)	69		Fuel Lift Pump	
Diameter (Tropical / temperate)	1400 / 1214		Flow/hour (L/h)	660
Coolant pump speed and method of drive	1.4 x e rev/min gear driven		Delivery Pressure (kPa)	300
Thermostat operating range (°C)	71-85		Lubricati System	
Diameter (mm)	1200		Lubricating Oil Capacity	
Drive Ratio	0.78 : 1		Total System (L)	153
Number of Blades	6-8		Minimum (L)	127
Material	Steel		Lubricating Oil Pressure	
Type	Engine mounted		-at 80°C temperature to bearing gallery (MPa)	0.34
Max. top temperature in crankcase (kPa)	98		Normal temperature (°C)	105
Max. static pressure head on pump (m)	7			
Shutdown switch setting (°C)	101 °C rising			

Exhaust System			Electrical System	
Max. Back Pressure (kPa)	949		Alternator (A/V)	40/24 or 28
Exhaust Outlet Size (mm)	2 X 152		Starting Motor (kW/V)	8.2/24

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



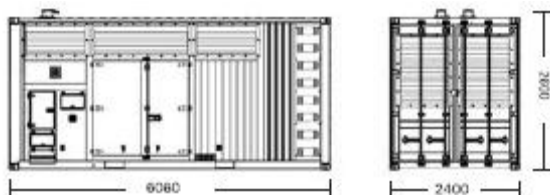
PLC-5220

DSE-5220 control pannel is applied

- I Microprocessor control, with high stability and credibility
- I Mains supply and generator operation monitoring
- I Indicating operation status and fault conditions
- I Multiple protections; multiple parameters display, like pressure, temp.
- I Manual and automatic work mode selectable
- I Real time clock for time and date display, overall runtime display, 99 log entries
- I Overall power output display
- I Integral speed/frequency detecting, telling status of start, rated operation, overspeed
- I Communication with PC via RS485 OR RS232 interface, using MODBUS protocol.



Dimension and Weight



WPS900S

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

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



Air Switch



Paralleling Control System



ATS



Mobile Trailer

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Specification may change without prior notice.
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