

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

POWERink
Power Systems

EP Series WPS137S

— Generator Set Specification



NO: DT1222012S- 02

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Super Quiet, Superior Life!

CE



3-Phase, 50Hz@1500RPM				
	Voltage	kW	kVA	Amps
Prime Power	380	109.6	137	208.2
	400	109.6	137	197.7
	415	109.6	137	190.6
	440	109.6	137	179.8
Standby Power	380	121.8	152.2	231.3
	400	121.8	152.2	219.7
	415	121.8	152.2	211.8
	440	121.8	152.2	199.7
Noise Level at 7 meters (dBA)			69	

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	1006TAG		Model	LSA44.2M95	
No. of Cylinders and Cycle	6L, 4 Stroke		Rated Output (kVA)	150	
Induction System	TCA		Ratedcurrent (A)	197.7	
Compression Ratio	18.3: 1		Exciter	Brushless	
Displacement (L)	6		THF(BS EN60034- 1)	<2%	
Bore x Stroke(mm)	105 x 127		Bearing number	Single	
Ambient Temp (°C)	25		Windings	100% Copper	
Continuous Rated Power (kW)	128.4		Connection Type	Star Connection	
Speed (rev/min)	1500		Insulation Class	Class H	
Cooling Air Flow (L/min)	140		Winding Pitch	2/3	
Air Intake Flow (m³/min)	8.38		Amortisseur Winding	Full	
Exhaust Gas Flow (m³/min)	24.14		A.V.R. Model	R438	
Exhaust Temp (°C)	571		Voltage Regulation (no load- full load)	± 0.5%	
Starting System	E		Underspeed Protection	Standard	
Battery Voltage/Capacity	12VDC/200A/200		Protection	IP23	
Fuel Consumption (L/h)	110% load		Phase Sequence	A(U), B(V), C(W)	
	100% load	33.3	TIF (NEMA MG 1-22)	<50	
	75% load	25.2	Excitation System	Self-excited, PMG optional	
	50% load	16.9	AmbientTemp (°C)	40	
Governor Type	Mechanical		Stator Rated Temp (°C)	125	

Cooling System			Fuel System		
Radiator			Type of Injection	Direct	
Face Area (m²)	0.401		Fuel injection pump	Rotary / Stanadyne DB4	
Rows and Materials	3 Brass		Fuel atomizer	Bosch / RSU / 4 hole	
Width of Matrix (mm)	637		Nozzle opening pressure (MPa)	24.7	
Height of Matrix (mm)	630		Fuel Lift Pump		
Pressure Cap Setting (kPa)	50		120-150	122.4	
			Pressure (kPa)	30	
Fan			Governor Type	Mechanical / Electronic	
Diameter (mm)	635				
Drive Ratio	1.25: 1		Lubricating System		
Number of Blades	10		Lubricating Oil Capacity		
Material	Composite		Total System (L)	19	
Type	-		Minimum (L)	16	
Coolant			Lubricating Oil Pressure		
Total System Capacity	With Radiator (L)	37.22	Relief Valve Open(kPa)	345-414	
	Without Radiator (L)	12.7	Normal temperature (°C)	105-125	

Exhaust System			Electrical System		
Max. Back Pressure (kPa)	TBA		Alternator (A/V)	55/12(or 24)	
Exhaust Outlet Size (mm)	78		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 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



WPS137S

Length × Width × Height, (mm) Weight (kg)
3140×1200×1800 2240

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



Power Link Machine (Shanghai) Co., Ltd.

No. 576, Guanghua Road, Songjiang Science & Technology Park, Shanghai, China

Tel: 086-21- 57858485 Fax: 086-21- 57858750

E-mail: info@powerlinkgenset.com

*Specification may change without prior notice.
For more info., please contact Power Link or your local distributors.*

Local Distributor