

EP Series WPS1000S

— Generator Set Specification



NO: DT12220027S- 02 © 2010 Power Link Machine (Shanghai) Co., Ltd.

Super Quiet, Superior Life!







3-Phase, 50Hz@1500RPM					
	Voltage	kW	kVA	Amps	
	380	800	1000	1519.4	
Prime Power	400	800	1000	1443.4	
Prime Power	415	800	1000	1391.2	
	440	800	1000	1312.2	
	380	888.9	1111.1	1688.2	
Standby Power	400	888.9	1111.1	1603.8	
	415	888.9	1111.1	1545.8	
	440	888.9	1111.1	1458.0	
Noise Level at 7 meters (dBA) 74					

Notes:

- 1) Ambient reference conditions: 1,000 mbar, 27 $^\circ\!\!\!\!\!\!\mathrm{C}$, 30% relative humidity;
- 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
1	With all the advantages of soundproofed generators. Optimal unit protection with minimum size.	I I	Easy to transport. Ease of operation.
	Fluid containment design for greater environmental protection.	I I	No need of installation. Suitable for outdoor use.
I	Sound attenuated to minimize impact on local environment. Keeps all spillages contained inside enclosure avoiding		
	external site.		

Performance Specification and Craftwork					
Performance Specification		Telephone Int	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			
2.0 time overload operation time (minute)	1	 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 			
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%	 Criterion ISO3046, ISO8528, BS4999, BS5514, BS5000PT99、AS1359, IEC34 UTE5100, VDE0530 			
Frequency Settle Time	5 seconds				
Frequency Fluctuation Ratio	0.5%				
Recovery Time	0.5 seconds	• ISO9001:2000			

WPS1000S



	Engine Spec	gine Specification Alternator Specification		r Specification	
Brand		Perkins (UK)	Brand Leroy Somer		
Model		4008TAG2A	Model	LSA50.2S4	
No. of Cylinder	s and Cycle	8L, 4 Stroke	Rated Output (kVA)	1025	
Induction Syste	em	TCA	Rated current (A)	1443.4	
Compression F	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	(℃)	25	Windings	100% Copper	
Continuous Ra	ted Power (kW)	872	Connection Type	Star Connection	
Speed	(rev/min)	1500	Insulation Class	Н	
Cooling Air Flo	w (L/min)	10	Winding Pitch	2/3	
Air Intake Flow	(m³/min)	75	Amortisseur Winding	Full	
Exhaust Gas F	low (m³/min)	200	A.V.R. Model	R448V50	
Exhaust Temp	Exhaust Temp (°C) 438		Voltage Regulation (no load- full load)	± 0.5%	
Starting System	n	Electronic	Underspeed Protection	Standard	
Battery Voltage/Capacity		24VDC/1600A/1600	Protection	IP23	
Fuel	100% load		Phase Sequence	A(U), B(V), C(W)	
Consumption	75% load	220	TIF (NEMA MG 1-22)	<50	
(L/h)	50% load	160	Excitation System	Self-excited, PMG optional	
(-/11)	25% load	108	AmbientTemp (°C)	40	
Governor Type		Е	Stator Rated Temp (°C)	125	

Cooling System		Fuel System		
Total coolant capacity		Type of Injection		Indirect Injection
Electrounit(engine only) (L)	48	Fuel Injection Pump		Combined unit injector
ElectropaK(tropical) (L)	149	Fuel Injector		Combined unit injector
ElectropaK(temperate) (L)	143	Nozzle Opening Press	ure (bar)	234
Pressure cap setting (kPa)	69	Fuel Lift Pump		
Diameter(tropical) (mm)	1400	Flow/hour	(L/h)	660
Diameter(temperate) (mm)	1214	Pressure	(kPa)	300
Cooling water capacity	165.6	Lubricating System		
Coolant pump speed and method of drive	1.4 x e rev/min gear driven	Lubricating Oil Capacity		
Maximum static pressure head on pump above engine crank centre line (m)	7	Total System	(L)	153
Maximum external permissible restriction to coolant pump flow (kPa)	20	Minimum	(L)	127
Thermostat operating range (°C)	71-85	Lubricating Oil Pressure		
Shutdown switch setting (°C)	101 ℃ rising	Relief Valve Opens	(MPa)	0.34
	•	Normal Oil Temp	(℃)	105

Exhau	Exhaust System		Electrical System		
Max. Back Pressure (kP	a) 816	Alternator	(A/V)	40/24 (or 28)	
Exhaust Outlet Size (mn	n) 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



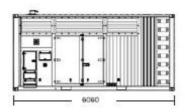
PLC-5220

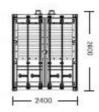
DSE-5220 control pannel is applied

- I Microprocessor control, with high stability and credibility
- I Mains supply and generator operation monitoring
- I Indicating operation status and fault conditions
- Multiple protections; multiple parameters display, like pressure, temp.
- I Manual and automatic work mode selectable
- 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





WPS1000S

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



Optional

Engine	Alternator	Generator Set	Fuel System	Canopy
Coolant heater	 Space heater AVR PMG with regulator Anti-damp and anti-corrosion treatment Anti-condensation heater 	Tools with the machine	Low fuel level alarm Automatic fuel feeding system	• Trailer
Lubricating System	Exhaust System	Cooling System	Control Panel	Voltages
Oil with the machine	Protection board from hotness Low frequency silencer	 Front heat protection 50°C radiator Coolant (-30°C) 	Remote control panel Automatic paralleling control panel Automatic Transfer Switch (ATS)	415/240V400/230V380/220V220/127V200-115V



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