

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



# EP Series WPS1500S

— Generator Set Specification



NO: DT12220029S- 02

© 2010 Power Link Machine (Shanghai) Co., Ltd.

**Super Quiet, Superior Life!**





3-Phase, 50Hz@1500RPM				
	Voltage	kW	kVA	Amps
<b>Prime Power</b>	380	1200	1500	2279.1
	400	1200	1500	2165.1
	415	1200	1500	2086.9
	440	1200	1500	1968.3
<b>Standby Power</b>	380	1333.3	1666.7	2532.3
	400	1333.3	1666.7	2405.7
	415	1333.3	1666.7	2318.7
	440	1333.3	1666.7	2187.0
<b>Noise Level at 7 meters (dBA)</b>			75.6	

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

## 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	<b>Craftwork</b> <ul style="list-style-type: none"> <li>• Steel base frame with AV mounting</li> <li>• Standard 8h fuel tank with flexible rubber fuel tube, fuel level indicator and drainage</li> <li>• Overall sprayed powder coating</li> <li>• Whole set documents, including Installation Manual, Operation Manual, Spare Parts Catalog, Circuit Diagram</li> </ul> <b>Criterion</b> <ul style="list-style-type: none"> <li>• ISO3046, ISO8528, BS4999, BS5514,</li> <li>• BS5000PT99, AS1359, IEC34</li> <li>• UTE5100, VDE0530</li> <li>• ISO9001:2000</li> </ul>	
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	
<b>Brand</b>	<b>Perkins (UK)</b>	<b>Brand</b>	<b>Leroysoner</b>
<b>Model</b>	<b>4012-46TAG2A</b>	<b>Model</b>	<b>LSA50.2VL8</b>
No. of Cylinders and Cycle	12L, 4 Stroke	Rated Output (kVA)	1600
Induction System	TCA	Ratedcurrent (A)	2165.1
Compression Ratio	13.6: 1	Exciter	Brushless
Displacement (L)	45.84	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)	1505	Connection Type	Star Connection
Speed (Rev/Min)	1500	Insulation Class	H
Cooling Air Flow (L/s)	112	Winding Pitch	2/3
Air Intake Flow (m³/min)	112	Amortisseur Winding	Full
Exhaust Gas Flow (m³/min)	N/A	A.V.R. Model	R448V50
Exhaust Temp (°C)	58	Voltage Regulation (No Load- Full Load)	± 0.5%
Starting System	Electronic	Underspeed Protection	Standard
Battery Voltage/Capacity	24VDC/2000A/2000	Protection	Ip23
Fuel Consumption (L/H)	110% Load	Phase Sequence	A(U), B(V), C(W)
	100% Load	Tif (Nema Mg 1-22)	<50
	75% Load	Excitation System	Self-Excited, PMG Optional
	50% Load	Ambienttemp (°C)	40
Governor Type	E	Stator Rated Temp (°C)	125

Cooling System		Fuel System	
<b>Total Coolant Capacity</b>		Type Of Injection	Direct Injection
Face Area (m²)	2.57	Fuel Injection Pump	Combined Unit Injector
Rows and Materials	4 Rows, Copper	Fuel Injector	Combined Unit Injector
Width of Matrix (mm)	1608	Injector Pressure (MPa)	140
Height of Matrix (mm)	1601	<b>Fuel Lift Pump</b>	
Pressure Cap Setting (KPa)	70	Flow/Hour (L/h)	1020
<b>Fan</b>	Diameter(Temperate/Tropical) (mm)	Governor Type	Electronic
		<b>Lubricating System</b>	
Drive Ratio	0.93:1	<b>Lubricating Oil Capacity</b>	
Number of Blades	12	Total System (L)	177
Material	Aluminium	Minimum (L)	136
Type	Axial Flow	<b>Lubricating Oil Pressure</b>	
<b>Coolant</b>	Total Capacity (Temperate/Tropical) (L)	Relief Valve Opens (KPa)	400
		Normal Oil Temp (°C)	105
	196/201		

Exhaust System		Electrical System	
Max. Back Pressure (Pa)	500	Alternator (A/V)	40/24
Exhaust Outlet Size (mm)	2 X 254	Starting Motor (kW/V)	16.4/24

## 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

**WPS1500S**

Length × Width × Height, (mm)	Weight (kg)
12200×2400×2900×633	3900+

**Optional**

Engine	Alternator	Generator Set	Fuel System	Canopy
<ul style="list-style-type: none"> <li>• Coolant heater</li> </ul>	<ul style="list-style-type: none"> <li>• Space heater</li> <li>• AVR PMG with regulator</li> <li>• Anti-damp and anti-corrosion treatment</li> <li>• Anti-condensation heater</li> </ul>	<ul style="list-style-type: none"> <li>• Tools with the machine</li> </ul>	<ul style="list-style-type: none"> <li>• Low fuel level alarm</li> <li>• Automatic fuel feeding system</li> </ul>	
Lubricating System	Exhaust System	Cooling System	Control Panel	Voltages
<ul style="list-style-type: none"> <li>• Oil with the machine</li> </ul>	<ul style="list-style-type: none"> <li>• Protection board from hotness</li> <li>• Low frequency silencer</li> </ul>	<ul style="list-style-type: none"> <li>• Front heat protection</li> <li>• 50°C radiator</li> <li>• Coolant (-30°C)</li> </ul>	<ul style="list-style-type: none"> <li>• Remote control panel</li> <li>• Automatic paralleling control panel</li> <li>• Automatic Transfer Switch (ATS)</li> </ul>	<ul style="list-style-type: none"> <li>• 415/240V</li> <li>• 400/230V</li> <li>• 380/220V</li> <li>• 220/127V</li> <li>• 200-115V</li> </ul>



**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](mailto:info@powerlinkgenset.com)

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

Local Distributor