

PSDG410

Industrial Range

WATER COOLED THREE PHASES 50 HZ DIESEL

Standby 410 kVA | Prime 370 kVA
Standby 328 kW | Prime 296 kW
Rated Speed : 1500 rpm
Voltage : 400/230 V
Standby Current : 590A
Frekans : 50 Hz
PF : 0.8

POWERSAN gensets are compliant with EC mark which includes the following directives:

- 2006/42/EC Machinery safety
- 2014/30/EU Electromagnetic compatibility
- 2014/35/EU Electrical equipment designed for use within certain voltage limits
- 2000/14/EC Sound Power level. Noise emissions outdoor equipment. (amended by 2005/88/EC)
- 97/68/EC Emissions of gaseous and particulate pollutants. (amended by 2002/88/EC & 2004/26/EC)
- EN 12100, EN 13857, EN 60204

POWERSAN MAKINA SANAYİ TİC.LTD.ŞTİ

Alize Business Center No.8
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www.powersan.com.tr



TECHNICAL SPECIFICATION



Engine

Brand : DONGFENG
Model : WLD6L450TAD
Type : 4 Stroke - Diesel
Injection : Direct Injection
Aspiration : Turbocharged & Aftercooled
Number of Cylinder : 6
Cooling: Water cooling
Displacement : 11.8 L
Fuel Consumption :

- 100% PRP - 64.5 l/h
- 75% PRP - 48.5 l/h
- 50% PRP - 32.5 l/h

Oil Capacity : 40-45 L
Coolant Capacity : 45 L

Alternator

Brand : Powersan
Model : 314F
Voltage : 230/400 V
Standby Power : 420 kVA
Prime Power : 378 kVA
Power Factor : 0.8 Cosφ
Number of Wires : 12
Winding : 2/3
Protection Class : IP23/H
Excitation System : Self Excited
AVR Model : S440
Performance : 93.8 %



Prime Power (PRP):

Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24 h of operation shall not exceed 70 % of the PRP.

Emergency Standby Power (ESP):

Emergency standby power is the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200 h of operation per year with the maintenance intervals and procedures being carried out as prescribed by the manufacturers. The permissible average power output over 24 h of operation shall not exceed 70 % of the ESP.

Note: All data based on operation to ISO 3046/1, BS 5514 and DIN 6271 standard reference conditions

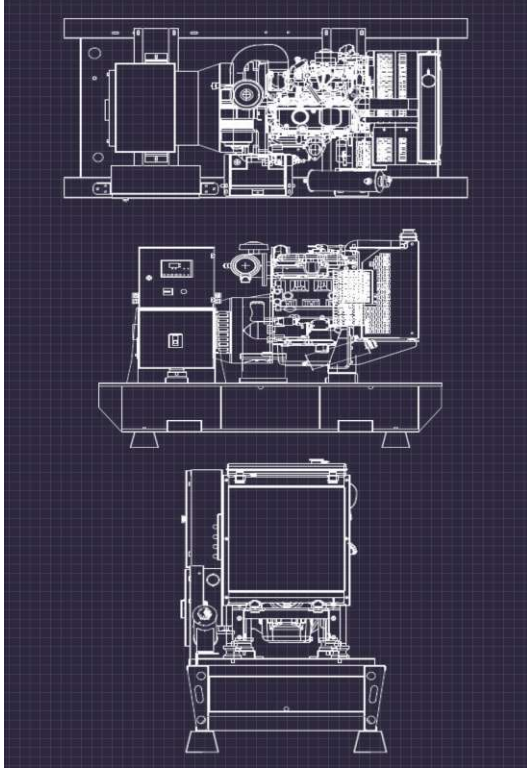
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DIMENSIONS

OPEN SET

Lenght : 2940 mm
Width : 1400 mm
Hegiht : 2007 mm
Weight : 3130 kg
Fuel Tank : 1100 lt

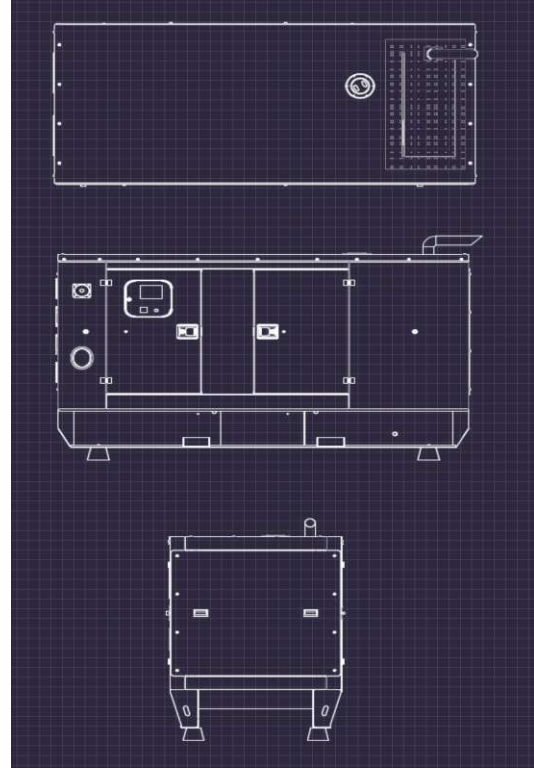


PSDG410 Industrial Range



CANOPIED

Lenght : 4000 mm
Width : 1400 mm
Hegiht : 2300 mm
Weight : 3600 kg
Fuel Tank : 1100 lt



Sound Proof Canopy

- Special design for minimizing acoustic level.
- Galvanized steel construction further protected by polyester powder coat paint.
- Black finish stainless steel locks and hinges.
- Control panel viewing window in a lockable access door.
- Emergency stop push button (red) mounted on enclosure exterior.
- Lifting, drag and jacking points on base frame.
- Radiator fill via removable, flush mounted rain cap fitted with compression seal.
- Acoustic insulation with moisture-repellent and non-flammable material

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CONTROL UNIT

ATS unit with uninterrupted transfer
AMF unit with uninterrupted transfer
Remote / Manuel start controller
Engine controller GSM-GPRS-GPS-Ethernet Port
8 configurable digital inputs

Internet Central Monitoring
SMS / E-mail message sending
Flexible with plug-in modules
Free PC software: Rainbow Plus
Modbus RTU



ATS Panel

POWERSAN automatic transfer switches are reliable, rugged, versatile, and compact assemblies for transferring essential loads and electrical distribution systems from one power source to another. POWERSAN 's contactor based transfer switch is rated 40–3600A and can be supplied in separate enclosures for standalone applications or can be supplied as an integral component. Contactors inside the ATS panels are well known and internationally recognized brands such as ABB, SIEMENS, SCHNEIDER, GE, LS, HYUNDAI, POWERSAN, TELERGON, SOCOMEC and ANDELI.

OPTIONAL EQUIPMENTS

Some Optional Equipments that POWERSAN provides with Generator Sets;

- Medium voltage alternator,
- Remote radiator applications,
- Automatic fuel filling system,
- Fuel tank, oil pan, dashboard, alternator, coil heaters,
- Alternator with double AVR and PMG,
- Synchronization systems, The generator output breaker,
- Grid-generator transfer switches,
- Accordance with the specific volume of demand-insulated cabins,
- Seismic solutions,
- Trailer, •Remote monitoring.

Control Panel

- DeepSea 7320
- Datakom D700/D300/D309/D200
- ComAp AMF9
- ComAp AMF25



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