

PSYT440

Industrial Range



WATER COOLED THREE PHASES 50 HZ DIESEL

Standby 440 kVA | Prime 396 kVA

Standby 352 kW | Prime 316.8 kW

Rated Speed : 1500 rpm | Voltage : 400/230 V | PF : 0.8

Standby Current : 635A

ISO 9001 & EC Mark Compliant

Ambient Conditions: ISO 8528

POWERSAN Company with quality certification ISO 9001

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



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TECHNICAL SPECIFICATION



Engine

Brand : YTO
Model : YM6S9LF-D
Type : 4 Stroke - Diesel
Injection : Direct Injection
Aspiration : Turbocharged
Number of Cylinder : 6
Bore and Stroke : 126x155 mm
Cooling: Water cooling
Displacement : 11.6 L
Fuel Consumption :

- 100% PRP - 73.1 l/h
- 75% PRP - 55.9 l/h
- 50% PRP - 34.6 l/h

Oil Capacity : 45 L
Coolant Capacity : 125 L

Alternator

Brand : Powersan
Model : 444FS
Voltage : 230/400 V
Standby Power : 450 kVA
Continuous Power : 400 kVA
Power Factor : 0.8 Cosφ
Number of Wires : 12
Winding : 2/3
Protection Class : IP23/H
Excitation System : Self Excited
AVR Model : SX440
Performance : 94.5



Prime Power (PRP):

According to ISO 8528-1:2005, 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):

According to ISO 8528-1:2005, 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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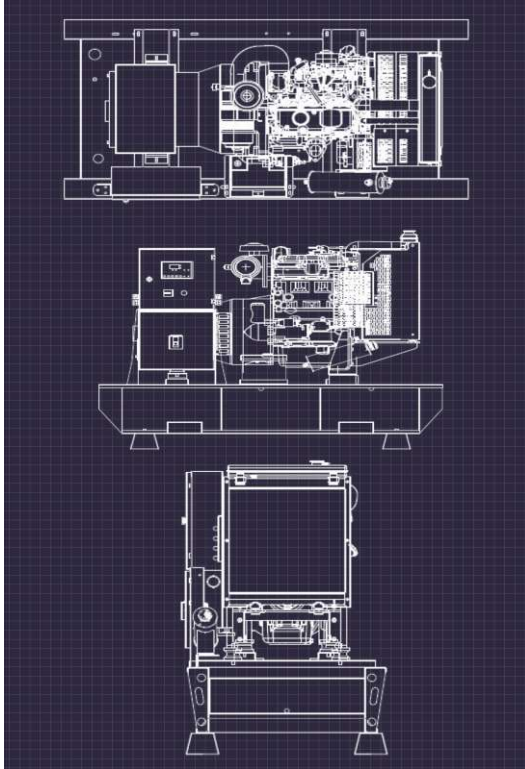
Industrial Range



DIMENSIONS

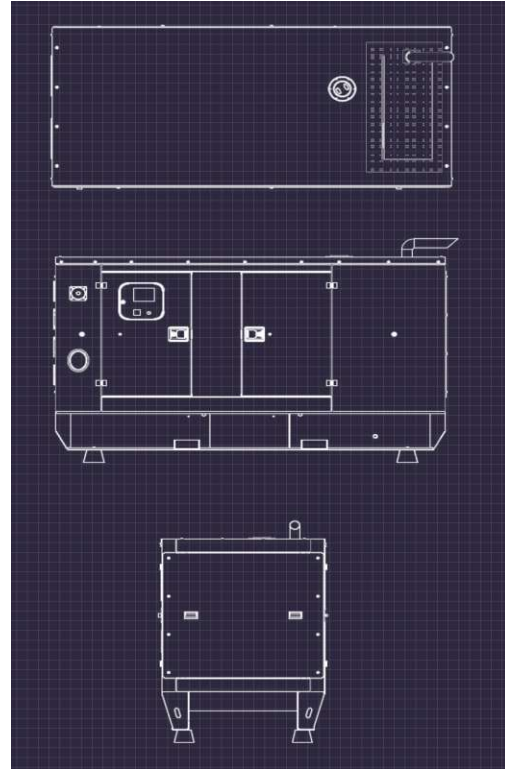
OPEN SET

Lenght : 3000 mm
Width : 1350 mm
Height : 1900 mm
Weight : 3520 kg
Fuel Tank : 750 lt



CANOPIED

Lenght : 4480 mm
Width : 1600 mm
Height : 2500 mm
Weight : 4000 kg
Fuel Tank : 750 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, 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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