EONE

POWERED BY PERKINS DIESEL GENERATOR SET



Model: ETYM10 INDUSTRIAL RANGE Powered by YANMAR









Generating Rates

| POWER RATING | | CONTINUOUS | STANDBY |
|-----------------------|---------|---------------------------------|---------|
| POWER | kVA | 9 | 10 |
| | kW | 7.2 | 8 |
| Rated Speed | r.p.m | 1800 | |
| Standard Voltage | V | 480 | |
| Available Voltages | V | 480/277-440/254-220/127-208/120 | |
| Rated at power factor | Cos Phi | 0.8 | |

Ambient conditions of reference: 1000 mbar, 25°C, 30% relative humidity. Power according to ISO 3046 normative.

Continuous power : Continuous power is defined as being the maximum power which the generating set is capable of delivering continuously whilst supplying a constant electrical load when operated for an unlimited number of hours per year.

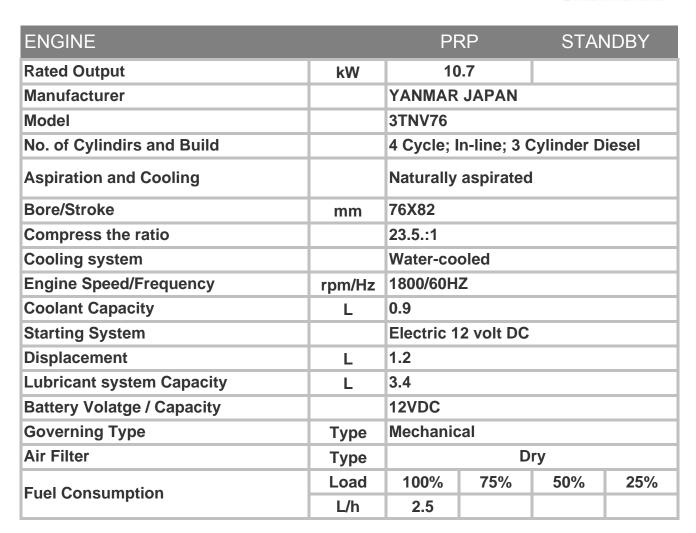
Standby Power (ISO 3046 Fuel Stop power): power available for use at variable loads for limited annual time (500h), within the following limits of maximum operating time: 100% load 25h per year – 90% load 200h per year. No overload available. Applicable in case of failure of the main in areas of reliable electrical network.





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Engine Specifications 1800 r.p.m. YANI



ENGINE--Industrial 4 stroke cooled diesel engine complete with air,fuel and oil filters,electric starting and charging equipment,engine protection against low water level.

COOLING--Radiator and colling fan complete with protection guards,designed to cool engine at specified output in air temperatures upto 45 °C,radiators suitable for higher temperatures are available.Low water level protection fitted as standard.

ELECTRICAL SYSTEM--12V upto.Axial type starter motor,battery charging alternator,high capacity lead acid battery,and battery tray mounted on the generator base frame,and heavy duty interconnecting cable with terminations.

EXHAUST SYSTEM-Heavy duty industrial exhauset silencer with flexible piping.





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Alternator Technical Specifications

| ALTERNATOR BRAND | | LEROY SOMER STAMFORD | | |
|---------------------------|-------|-------------------------|--------|--|
| Model | | N/A | PI044D | |
| Exciter System | | Self-excited, brushless | | |
| Poles | Num | 4 | | |
| Cooling Fan | | Cast alloy aluminum | | |
| Bearing | | Single,double shielded | | |
| Windings | | 100% copper | | |
| Connection Type | | Reconnectable | | |
| Insulation Type | Class | Class H | | |
| Pitch | | 2/3 | | |
| Amortisseur Winding | | Full | | |
| Voltage Regulator | | A.V.R. (Electronic) | | |
| Steady Voltage Precision | | ± 1% | | |
| Underspeed Protection | | Standard | | |
| Overexcitation Protection | | IP23 | | |
| TIF (1960 Weightings) | | <50 | | |

ALTERNATOR--Brushless,self exciting,self regulation,sreen protected,drip proof rated in accordance with IEC60034.Voltage regulation maintainted within ±0.5% from no load to full load.between 0.8 lagging and unity.All standard voltages available.





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Smartgen[®]

Control Panel Technical Specifications

Control Panel- SMARTGEN 6110/6120

The base mounted control panel in a vibration isolated sheet steel enclosure. The control panel is equipped as follows:

a)Instruments:Analogue Volmeter,Hours Run Meter.Water pressure Meter.

- b) Controls: Emergency Stop Pushbutton, Volmeter Phase Selector Switch.
- c) Control module:Standard collocation is smartgen Auto start with AMF.

Main Features:

ΔAutomatic mains failureΔEngine control,Generator protectionΔBuilt in alarms and warningsΔRemote Start operation availableΔFuel pump controlΔMains simulationΔBlock heater controlΔField adjustable parametersΔFree MS-Windows Remote monitoringΔLED displaysΔConfigurable analogue inputsΔI/O expansion capability

Protection Circuits

WARNING Battery charge failure Low battery voltage SHUT DOWNS Fail to start Emergency stop Low oil pressure High engine temperature Over /Under speed Under/over generator frequency Failed to reach loading voltage Electrical trip Generator over current



Instruments

ENGINE Engine speed Oil pressure Coolant temperature Run time Battery volts TOR Voltage (L-N) Current (L1-L2-L3) Frequency Mains Voltage (L-L, L-N)



60 Hz Model: ETYM10 INDUSTRIAL RANGE Powered by YANMAR

Generating Sets Standard Features

Three phase four wire,output voltage 480V/277V,60HZ,between 0.8 lagging,protection capability according with the standard of NAME1 and IP23.

General Features:

ΔComposed of Japan YANMAR diesel engine and Stamford or Leroy somer alternatorΔOil and fuel filter fitted,water separatorΔLube-oil drain valve fittedΔElectric Starter Charge motor 12 VD.CΔWater-cooledΔ8-hours operation base tankΔ Auto startΔOptional soundproof and weatherproof canopyΔ3 pole MCCB Delixi breakerΔOperation & Maintenance manualΔSpecial Integrated Steel Base tank and sprayed overall in gloss enamel paint

Voltage Regulation:

Voltage regulation maintanined within ±0.5% Between 0.8 and 1.0 lagging and unity From no load to full load At speed droop variation upto 4.5%

Frequency Adjustable Ratio:

Change load from 0-100%, within 1.0% (electric speed regulator), within 4.5% (mechanical speed regulator)

Frequency Undulation:

load from 0-100%,frequency undulation within 0.25% No load wire volts max undulation ration\ within 1.8% Three Phrase balanced load in the order of 5% Effect factor of Telecom TIF better than 50 THF to IEC60034 Part 40 better than 2%





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Soundproofed Version Features

Robust Corrosion Resustant Construction

 Δ Black finish stainless stell lock and hinges

 Δ Body made from steelcomponents treated with polyester powder coating

Excellent Access for Maintenance

 Δ Two large doors on each side

 Δ Radiator fill access plate

 $\Delta lube oil and cooling water drains pipes to exterior of the enclosure$

Security and Safety

 Δ Control panel viewing window in a lockable access door

- Δ Emergency stop push buttom (red)mounted on enclosure interior
- Δ Cooling fan and battery charging alternator fully guarded
- Δ Exhaust silencing system totally enclosed for operator safely







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Generating Sets other Features

Generating Sets Optional Features

ΔLow fuel level alarm shutdownΔAutomatic Fuel Filling SystemΔEngine oil feeding and drain pumpΔAuto Transfter Switch(ATS)ΔParallel control panelsΔCircuit Breaker MCCB & ACBΔRemote Control PanelΔweatherproof/soundproof CanopyΔTrailer type Gensets

Quality Standards

ISO9001:2000,ISO14000,ISO3046 ISO8528 BS4999 BS5514,AS1359,ICE34 CE Compliance

Gensets Dimensions & Weight

Open type:LxWxH (mm) Net Weight Kgs

1460*730*1170 /500KGS

Silent type:LxWxH (mm) Net Weight Kgs

1800*740*1150 /570KGS

Authorized

