



閩東電機
MINDONG ELECTRIC

POWERED BY YUCHAI DIESEL GENERATOR SET



Diesel



Watercooled

50
Hz

Model: MD 80
INDUSTRIAL RANGE
Powered by YUCHAI



Generating Rates

| POWER RATING | | PRIME | STANDBY |
|-----------------------|---------|---------------------------|---------|
| POWER | kVA | 75 | 80 |
| | kW | 60 | 64 |
| Rated Speed | r.p.m | 1500 | |
| Standard Voltage | V | 400 | |
| Available Voltages | V | 400/230 - 230/132 - 230 V | |
| 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.

P.R.P. Prime Power - ISO 8528 : prime power is the maximum power available during a variable power sequence, which may be run for an unlimited number of hours per year, between stated maintenance intervals. The permissible average power output during a 24 hours period shall not exceed 80% of the prime power. 10% overload available for governing purposes only.

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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Alternator Technical Specifications

| ALTERNATOR BRAND | | PUDELI | |
|---------------------------|-------|-------------------------|--|
| Model | | PDL 24102833 | |
| 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 $\pm 0.5\%$ from no load to full load.between 0.8 lagging and unity.All standard voltages available.



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Engine Specifications 1500 r.p.m.



玉柴機器
YC DIESEL

| ENGINE | | PRP | | STANDBY | |
|----------------------------|--------|-------------------------------------|------|---------|-----|
| Rated Output | kW | 70 | | 73.5 | |
| Manufacturer | | YUCHAI | | | |
| Model | | YC4A100Z-D20 | | | |
| No. of Cylindirs and Build | | 4 Cycle; In-line; 4 Cylinder Diesel | | | |
| Aspiration and Cooling | | Air natural cooled | | | |
| Bore/Stroke | mm | 108X132 | | | |
| Compress the ratio | | 17.5:1 | | | |
| Cooling system | | Water-cooled | | | |
| Engine Speed/Frequency | rpm/Hz | 1500/50HZ | | | |
| Coolant Capacity | L | 26.3 | | | |
| Starting System | | Electric 24 volt DC | | | |
| Displacement | L | 4.84 | | | |
| Lubricant system Capacity | L | 17 | | | |
| Battery Volatge / Capacity | | 24VDC | | | |
| Governing Type | Type | Electrical | | | |
| Air Filter | Type | Dry | | | |
| Fuel Consumption | Load | 100% | 75% | 50% | 25% |
| | L/h | 19.4 | 14.4 | 9.9 | |

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--24V 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 exhaust silencer with flexible piping.



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Generating Sets Standard Features

Three phase four wire, output voltage 400V/230V, 50HZ, between 0.8 lagging, protection capability according with the standard of NAME1 and IP23.

General Features:

- Δ Oil and fuel filter fitted, water separator
- Δ Lube-oil drain valve fitted
- Δ Electric Starter Charge motor 24 V.D.C
- Δ Water-cooled
- Δ 8-hours operation base tank
- Δ Auto start
- Δ Optional soundproof and weatherproof canopy
- Δ 3 pole MCCB Delixi breaker
- Δ Operation & Maintenance manual
- Δ Special Integrated Steel Base tank and sprayed overall in gloss enamel paint

Voltage Regulation:

- Voltage regulation maintained within $\pm 0.5\%$
- Between 0.8 and 1.0 lagging and unity
- From no load to full load
- At speed droop variation up to 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 Phase 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 Resistant Construction

- Δ Black finish stainless steel lock and hinges
- Δ Body made from steel components treated with polyester powder coating

Excellent Access for Maintenance

- Δ Two large doors on each side
- Δ Radiator fill access plate
- Δ 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 button (red) mounted on enclosure interior
- Δ Cooling fan and battery charging alternator fully guarded
- Δ Exhaust silencing system totally enclosed for operator safety





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Generating Sets other Features

Generating Sets Optional Features

- ΔLow fuel level alarm shutdown
- ΔAutomatic Fuel Filling System
- ΔEngine oil feeding and drain pump
- ΔAuto Transfer Switch(ATS)
- ΔParallel control panels
- ΔCircuit Breaker MCCB & ACB
- ΔRemote Control Panel
- Δweatherproof/soundproof Canopy
- ΔTrailer 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

1900*900*1200, 1100Kgs

Silent type:LxWxH (mm) Net Weight Kgs

2000*1080*1770, 1650Kgs