



周東電機[®]
MINDONG ELECTRIC

POWERED BY YUCHAI
DIESEL GENERATOR SET



Diesel



Watercooled

50
Hz

Model:MD 80

INDUSTRIAL RANGE

Powered by YUCHAI



 玉柴机器
YC DIESEL

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 forgoverning 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, screen protected, drip proof rated in accordance with IEC60034. Voltage regulation maintained within ±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.



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%
	L/h	19.4	14.4
		50%	25%

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 ±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 ratio\ 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

- Δ Low fuel level alarm shutdown
- Δ Automatic Fuel Filling System
- Δ Engine oil feeding and drain pump
- Δ Auto Transfer Switch(ATS)
- Δ Parallel control panels
- Δ Circuit Breaker MCCB & ACB
- Δ Remote Control Panel
- Δ weatherproof/soundproof Canopy
- Δ Trailer 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