

FUJIAN EPOS ELECTRIC MACHINERY CO., LTD



ENGINE MODEL: Y4102ZD

EMEAN POWER

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WHATSAPP



WECHAT



Engine Data Sheet

Diesel Engine Model –Y4102ZD (53kw/1800rpm)

General Engine Data

Number of cylinders.....	4
Cylinder arrangement.....	In-line
Combustion Cycle.....	Four stroke, compression ignition
Cooling medium.....	Liquid
Method of air aspiration.....	Turbocharged
Compression ratio.....	18:1
Bore.....	102 mm
Stroke.....	118 mm
Cubic capacity.....	3.86 litres
Rotation, Viewed from Flywheel.....	clockwise
Firing order.....	1-3-4-2
Total weight (engine only)	408 kg

Physical Data

Length.....	867 mm
Width.....	616 mm
Height.....	722 mm

Ratings

Steady state speed stability at constant load.....	≤ 5%
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Performance Data

Engine speed.....	1800 rev/min
Engine power(Net)	53kw (standby) / 48kw (prime)
specific fuel consumption.....	≤ 225 g / kw.h

Noise level

Sound pressure level.....	≤ 109 dBA
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Standard Conditions

Air temperature.....	25 °C
Barometric pressure.....	100 kPa
Relative humidity.....	30 %
Air inlet Restriction at maximum power (nominal)	≤ 5 kPa
Exhaust back pressure (nominal)	≤ 6 kPa

Cooling system

Thermostat operating range.....	72~82 °C
Coolant intake size.....	Φ 38 mm

Coolant outlet size.....Φ 38 mm
Fan diameter.....Φ 450 mm
Fan to crankshaft speed ratio.....1.62: 1

Intake and exhaust system

Air filter mode.....Dry type
Intake air flow.....240 L/s

Charge Air Cooling System

Supercharger outlet pres..... < 200 kPa
Supercharger outlet temperaturesure..... 130 °C
Intercooling radiation (work loss)N/A
Maximum allowable intake air temperature after intercooling (at 25 °C)N/A
Maximum allowable limit intake air temperature after intercooling..... < 50 °C

Lubrication system

Lubricating oil capacity.....10 litres
Lubricating oil temperature maximum to bearings.....100-115 °C
Oil Pressure @ Idle Speed.....≥ 150 kPa
 @ Governed Speed..... ≥ 300 kPa
Maximum engine operating angles20°

Fuel system

Type of injection system.....Direct injection
Fuel injection pump.....Line Pump
Governor type.....Mechanical / Electronic

Electrical system

Alternator.....14 volts with integral regulator
Starter motor.....12 volts
Recommended Battery Capacity.....≥ 90 A.h

All data is based on:

--Engine operating with fuel corresponding to grade No.2-D per ASTM D975

--ISO 3046,Part1,Standard Reference Conditions of:Barometric Pressure:100kPa(29.5in.Hg);

Altitude:110m(361ft.);Air Temperature:25°C(77°F);Relative Humidity:30%.

N.A.-Not Applicable to this Engine

TBD - To Be Determined

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