

INNOVATION. PRECISION. TRUST.



401KW

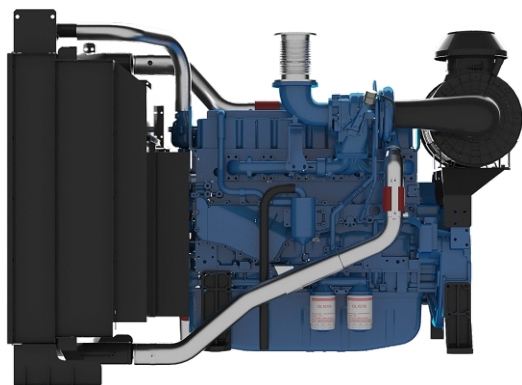
EU Stage IIIA

6 cylinders

YUCHAI GENSET ENGINE

D500R3-CR-TA-612

Engineered for superior performance, the D500R3-CR-TA-612 delivers 360 kW of prime power with advanced turbocharged technology. This 6-cylinder 11.73L diesel engine combines high efficiency with robust construction for demanding power generation needs.



Main technical parameters

Number of cylinders	6
Configuration	Vertical, in-line
Aspiration	Turbocharged and intercooled
Combustion system	Direct injection
Compression ratio	14:1
Bore × Stroke	131x 145
Displacement	11.73L
Rotation	Counterclockwise (viewed from the flywheel end)
Fuel system	High Pressure Common Rail
Governor	ECU
Stability at constant load (ISO 8528-5 Class G3)	± +/- 0.5 %
50/60Hz switchable operation	NO
Electric system	24V
Tropical Radiator mounted on the engine	Ambient 50°C
Flywheel Housing	SAE1 /14"
Lubrication Oil capacity	37L
Coolant capacity	85L
Emission class	EU Stage IIIA

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The engine performance

Gross Engine Output 50Hz

PRP	401 kWm
ESP	441 kWm

Typical Generator Output 50Hz

PRP	360 kWe
PRP	450 kVA
ESP	500 kVA

Fuel consumption

STANDBY(ESP)	206.9 g/kWh	109.3 L/h
PRIME(PRP)	202.6 g/kWh	97.3 L/h
75% PRP (prime)	205.1 g/kWh	49.3 L/h
50% PRP (prime)	205.5 g/kWh	74.0 L/h

HVO synthetic fuel acceptance

Key Features

Main Features

- ✓ Compact design
- ✓ Good power density
- ✓ Durability
- ✓ Easy service & maintenance
- ✓ Low fuel consumption
- ✓ Wide selection of optional equipment
- ✓ Low noise
- ✓ Tailored cooling pack

Standard scope of supply

- ✓ Cast iron cylinder block c/w separate cast iron cylinder head
- ✓ Aluminum alloy pistons with gallery oil cooling
- ✓ Automatic belt tensioner, Lift eyes, Fixed front suspension
- ✓ Radiator with mechanical pusher fan, thermostatically controlled
- ✓ Large capacity oil pan, spin-on full-flow oil filter, oil dipstick
- ✓ High pressure common-rail system, multiple jets injectors, ECU
- ✓ Duplex fine fuel filters
- ✓ Side mounted turbocharger
- ✓ Rear mounted air filter with restriction indicator
- ✓ 24V DC electric system with 9kW starter
- ✓ 55A charging alternator
- ✓ Heat isolated exhaust manifold

Dimensions & Weight

Dimensions & Weight

Including radiator (dry weight)

2146

Length (mm)

1125

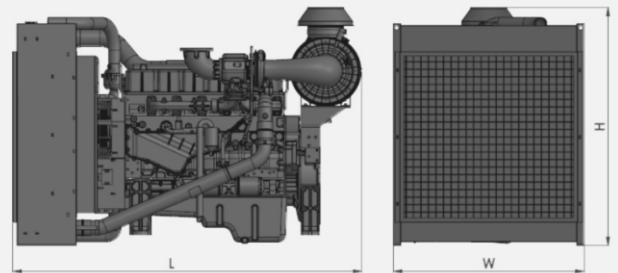
Width (mm)

1450

Height (mm)

1338

Weight (kg)



POWER DEFINITIONS:

ESP = STANDBY POWER

According to ISO8528 is maximum power available during variable electrical power sequence up to 200h of operation per year, permissible output over 24h operation should not exceed 70% ESP

PRP = PRIME POWER

According to ISO8528 is maximum power engine can deliver continuously for unlimited number of hours per year permissible output over 24h operation should not exceed 70% PRP

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**INTERNATIONAL
WARRANTY**

Prime Power

2 years with
no hours limitations

Standby Power

4 years or max. 1000 hrs
but not more than 300 hrs per year