

INNOVATION. PRECISION. TRUST.



YUCHAI GENSET ENGINE

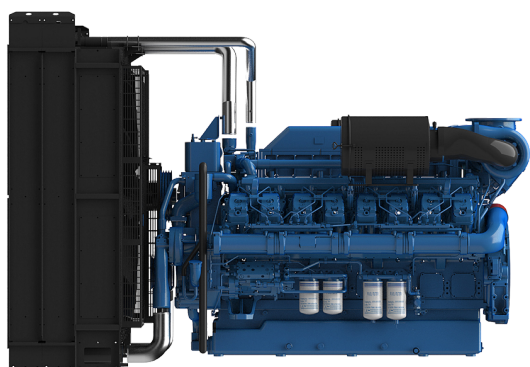
1805KW

EU Stage III

12 cylinders

D2250V3-CR-TA-1279

The D2250V3-CR-TA-1279 represents cutting-edge power generation technology with 1600 kW of prime output capability. This 12-cylinder 79.2L engine features sophisticated water-air intercooling for optimal thermal efficiency and performance.



Main technical parameters

Number of cylinders	12
Configuration	V, 90°
Aspiration	Turbocharged water-air intercooled
Combustion system	Direct injection
Compression ratio	14:1
Bore × Stroke	200x 210
Displacement	79.2L
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	SAE00 /21"
Lubrication Oil capacity	370L
Coolant capacity	679L
Emission class	EU Stage III

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The engine performance

Gross Engine Output 50Hz

PRP	1805 kWm
ESP	1985 kWm

Typical Generator Output 50Hz

PRP	1600 kWe
PRP	2000 kVA
ESP	2250 kVA

Fuel consumption

STANDBY(ESP)	205.9 g/kWh	490.4 L/h
PRIME(PRIP)	199.9 g/kWh	432.5 L/h
75% PRP (prime)	195.5 g/kWh	316.2 L/h
50% PRP (prime)	199.5 g/kWh	216.2 L/h
HVO synthetic fuel acceptance		

Key Features

Main Features

- ✓ Compact design
- ✓ Good power density
- ✓ Good load acceptance
- ✓ 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 heads
- ✓ Aluminum alloy pistons with gallery oil cooling
- ✓ Automatic belt tensioner, Lift eyes, Fixed front & rear suspension
- ✓ Radiator with mechanical pusher fan, thermostatically controlled
- ✓ Large capacity oil pan, spin-on full-flow oil filter, oil dipstick
- ✓ High-pressure common rail
- ✓ ECU management/monitoring
- ✓ Duplex fine fuel filters
- ✓ Rear mounted turbochargers
- ✓ Top/Side mounted air filters with restriction indicator
- ✓ 24V DC electric system with two starters 8.5kW each
- ✓ 55A charging alternator
- ✓ Heat isolated exhaust manifold

Dimensions & Weight

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Including radiator (dry weight)

3500

Length (mm)

2200

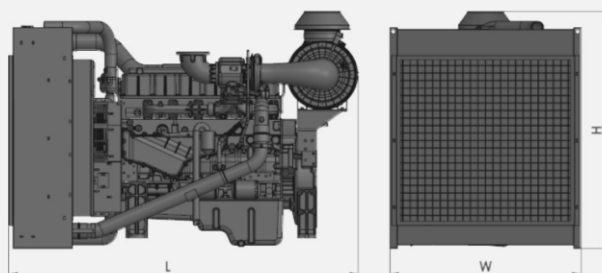
Width (mm)

2470

Height (mm)

6520

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