

INNOVATION. PRECISION. TRUST.



YUCHAI GENSET ENGINE

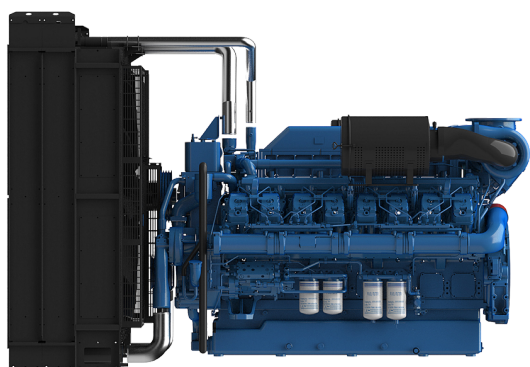
2005KW

EU Stage III

12 cylinders

D2500V3-CR-TA-1279

The D2500V3-CR-TA-1279 is a high-performance 12-cylinder diesel engine delivering 1800 kW of prime power output. With a 79.2L displacement and advanced engineering, this engine provides reliable power for diverse applications.



Main technical parameters

Number of cylinders	12
Configuration	V, 90°
Aspiration	Turbocharged air-air intercooled
Combustion system	Direct injection
Compression ratio	13.5:1
Bore × Stroke	200x 210
Displacement	79.2L
Rotation	Counterclockwise (viewed from the flywheel end)
Fuel system	Electronic Pump Units
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	2005 kWm
ESP	2206 kWm

Typical Generator Output 50Hz

PRP	1800 kWe
PRP	2250 kVA
ESP	2500 kVA

Fuel consumption

STANDBY(ESP)	204.6 g/kWh	540.6 L/h
PRIME(PRP)	200.2 g/kWh	480.6 L/h
75% PRP (prime)	202.4 g/kWh	364.4 L/h
50% PRP (prime)	215 g/kWh	258.1 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 (optional)

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 (optional)
- ✓ Large capacity oil pan, spin-on full-flow oil filter, oil dipstick
- ✓ Electronic Pump Units fuel system
- ✓ 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 11kW each
- ✓ 55A charging alternator
- ✓ Heat isolated exhaust manifold

Dimensions & Weight

Dimensions & Weight

Including radiator (dry weight)

5500

Length (mm)

2500

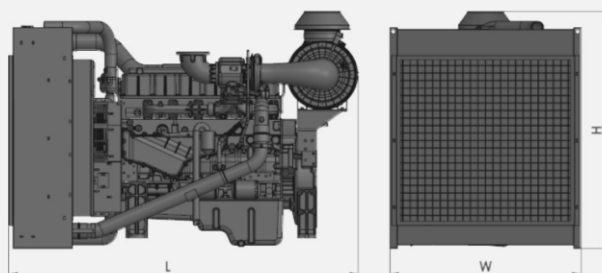
Width (mm)

2500

Height (mm)

14200

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