

# INNOVATION. PRECISION. TRUST.



## YUCHAI GENSET ENGINE

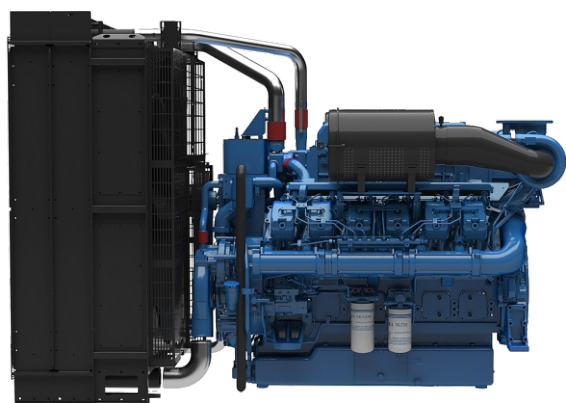
1000KW

Stage III

12 cylinders

## D1250V3-CR-TA-1240

The D1250V3-CR-TA-1240 represents cutting-edge power generation technology with 900 kW of prime output capability. This 12-cylinder 39.2L engine features sophisticated water-air intercooling for optimal thermal efficiency and performance.



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### 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	152x 180
Displacement	39.2L
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	SAE0 /18"
Lubrication Oil capacity	215L
Coolant capacity	485L
Emission class	Stage III

## The engine performance

### Gross Engine Output 50Hz

PRP	1000 kWm
ESP	1100 kWm

### Typical Generator Output 50Hz

PRP	900 kWe
PRP	1125 kVA
ESP	1250 kVA

### Fuel consumption

STANDBY(ESP)	199.7 g/kWh	263.1 L/h
PRIME(PRP)	197.9 g/kWh	237.0 L/h
75% PRP (prime)	207.3 g/kWh	124.1 L/h
50% PRP (prime)	199.1 g/kWh	178.8 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)

**3230**

Length (mm)

**1990**

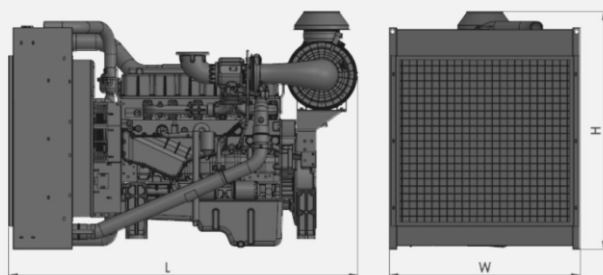
Width (mm)

**2160**

Height (mm)

**5440**

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