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YUCHAI GENSET ENGINE

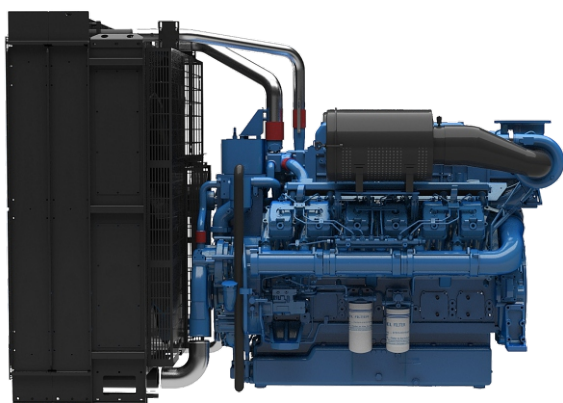
1345KW

Stage III

12 cylinders

D1650V3-CR-TA-1240

The D1650V3-CR-TA-1240 represents cutting-edge power generation technology with 1200 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	1345 kWm
ESP	1480 kWm

Typical Generator Output 50Hz

PRP	1200 kWe
PRP	1500 kVA
ESP	1625 kVA

Fuel consumption

STANDBY(ESP)	209.3 g/kWh	371.0 L/h
PRIME(PRP)	202.5 g/kWh	326.2 L/h
75% PRP (prime)	200.5 g/kWh	161.5 L/h
50% PRP (prime)	195.3 g/kWh	235.9 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

Dimensions & Weight

Including radiator (dry weight)

3230

Length (mm)

1990

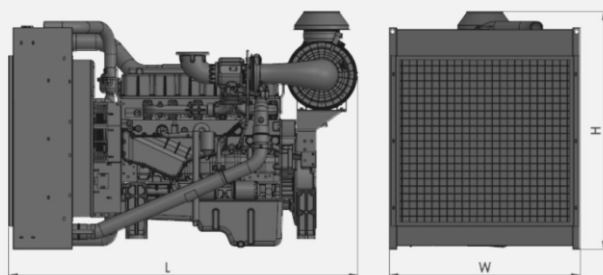
Width (mm)

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