

INNOVATION. PRECISION. TRUST.



38KW

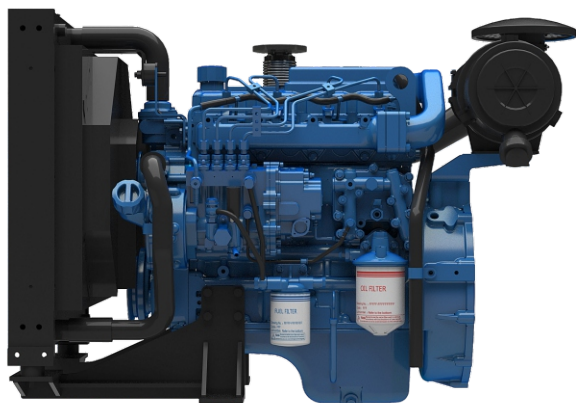
EU Stage II

4 cylinders

YUCHAI GENSET ENGINE

D44R2-MP-ET-425

Engineered for superior performance, the D44R2-MP-ET-425 delivers 30 kW of prime power with advanced turbocharged technology. This 4-cylinder 2.5L diesel engine combines high efficiency with robust construction for demanding power generation needs.



Main technical parameters

Number of cylinders	4
Configuration	Vertical, in-line
Aspiration	Turbo supercharging
Combustion system	Direct injection
Compression ratio	17.5:1
Bore × Stroke	89x 100
Displacement	2.5L
Rotation	Counterclockwise (viewed from the flywheel end)
Fuel system	Mechanical
Governor	Electronic
Stability at constant load (ISO 8528-5 Class G3)	± +/- 0.5 %
50/60Hz switchable operation	YES
Electric system	12V
Tropical Radiator mounted on the engine	Ambient 50°C
Flywheel Housing	SAE3 /11.5"
Lubrication Oil capacity	6.5L
Coolant capacity	13.5L
Emission class	EU Stage II

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The engine performance

Gross Engine Output 50Hz

PRP	38 kWm
ESP	42 kWm

Typical Generator Output 50Hz

PRP	30 kWe
PRP	40 kVA
ESP	44 kVA

Fuel consumption

STANDBY(ESP)	229.1 g/kWh	11.5 L/h
PRIME(PRP)	223.8 g/kWh	10.2 L/h
75% PRP (prime)	287.6 g/kWh	6.5 L/h
50% PRP (prime)	245.3 g/kWh	8.4 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 installed on the engine with mechanical pusher fan, thermostatically controlled
- ✓ Large capacity oil pan, spin-on full-flow oil filter, oil dipstick
- ✓ Fuel injection pump for high inject pressure, P-type injectors, duplex fine fuel filters
- ✓ Side mounted turbocharger
- ✓ Rear mounted air filter with restriction indicator
- ✓ 12V DC electric system with 3.7kW starter
- ✓ 35A charging alternator
- ✓ Heat isolated exhaust manifold

Dimensions & Weight

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Including radiator (dry weight)

1105

Length (mm)

605

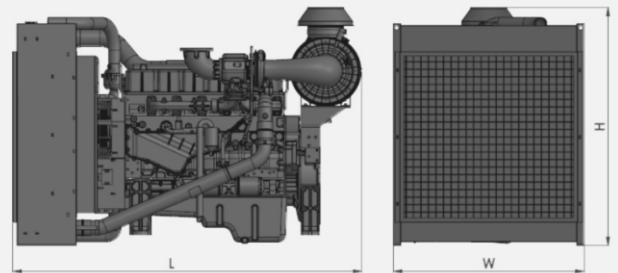
Width (mm)

780

Height (mm)

240

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