

INNOVATION. PRECISION. TRUST.



120KW

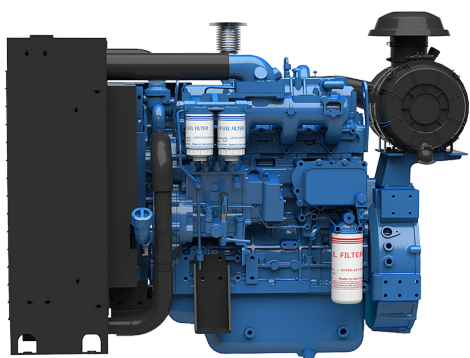
EU Stage II

4 cylinders

YUCHAI GENSET ENGINE

D143R2-MP-ETA-448

Engineered for superior performance, the D143R2-MP-ETA-448 delivers 104 kWe of prime power with advanced turbocharged technology. This 4-cylinder 4.8L 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	Turbocharged, air/air intercooled
Combustion system	Direct injection
Compression ratio	17.5:1
Bore × Stroke	108x 132
Displacement	4.8L
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	17L
Coolant capacity	26L
Emission class	EU Stage II

YUCHAIMOTOR.COM

The engine performance

Gross Engine Output 50Hz

PRP	120 kWm
ESP	132 kWm

Typical Generator Output 50Hz

PRP	104 kWe
PRP	130 kVA
ESP	143 kVA

Fuel consumption

STANDBY(ESP)	212.4 g/kWh	33.6 L/h
PRIME(PR P)	206.8 g/kWh	29.7 L/h
75% PRP (prime)	199.8 g/kWh	21.5 L/h
50% PRP (prime)	199.8 g/kWh	14.4 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

Dimensions & Weight

Including radiator (dry weight)

1419

Length (mm)

805

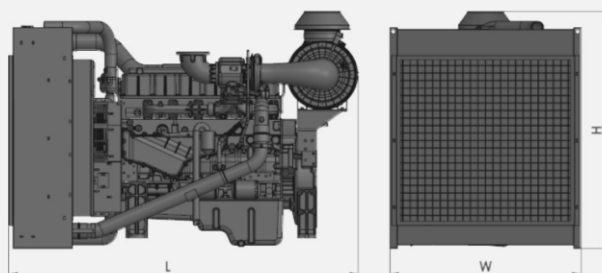
Width (mm)

1057

Height (mm)

541

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

YUCHAIMOTOR.COM

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