

# INNOVATION. PRECISION. TRUST.



815KW

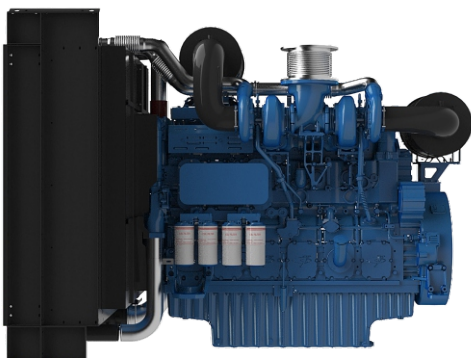
Stage III

6 cylinders

## YUCHAI GENSET ENGINE

## D1000R3-EP-TA-628

Engineered for superior performance, the D1000R3-EP-TA-628 delivers 730 kW of prime power with advanced turbocharged technology. This 6-cylinder 28.14L diesel engine combines high efficiency with robust construction for demanding power generation needs.



### Main technical parameters

Number of cylinders	6
Configuration	Vertical, in-line
Aspiration	Turbocharged and intercooled
Combustion system	Direct injection
Compression ratio	14:1
Bore × Stroke	175x 195
Displacement	28.14L
Rotation	Counterclockwise (viewed from the flywheel end)
Fuel system	Electronic pump injectors
Governor	Electronic
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	115L
Coolant capacity	165L
Emission class	Stage III

[YUCHAIMOTOR.COM](http://YUCHAIMOTOR.COM)

# The engine performance

## Gross Engine Output 50Hz

PRP	815 kWm
ESP	897 kWm

## Typical Generator Output 50Hz

PRP	730 kWe
PRP	913 kVA
ESP	1000 kVA

## Fuel consumption

STANDBY(ESP)	206.6 g/kWh	221.9 L/h
PRIME(PRP)	204.0 g/kWh	199.1 L/h
75% PRP (prime)	222.1 g/kWh	108.4 L/h
50% PRP (prime)	215.0 g/kWh	157.4 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 head
- ✓ Aluminum alloy pistons with gallery oil cooling
- ✓ Automatic belt tensioner, Lift eyes, Fixed front suspension
- ✓ Radiator with mechanical pusher fan, thermostatically controlled
- ✓ Large capacity oil pan, spin-on full-flow oil filter, oil dipstick
- ✓ Electronic pump-injectors, Electronic governor
- ✓ Duplex fine fuel filters
- ✓ Side mounted turbocharger
- ✓ Rear & top mounted air filter with restriction indicator
- ✓ 24V DC electric system with two starters 7.5kW each
- ✓ 70A charging alternator
- ✓ Heat isolated exhaust manifold

# Dimensions & Weight

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Including radiator (dry weight)

**2817**

Length (mm)

**1750**

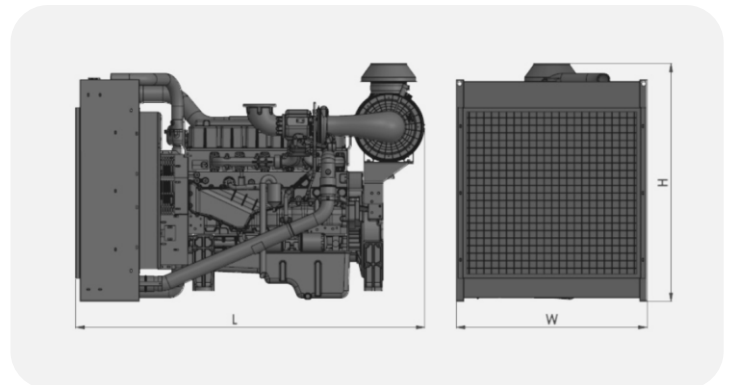
Width (mm)

**1992**

Height (mm)

**3810**

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