

INNOVATION. PRECISION. TRUST.



668KW

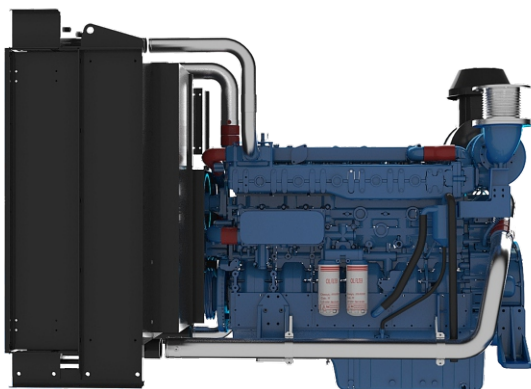
Stage III

6 cylinders

YUCHAI GENSET ENGINE

D825R3-CR-TA-620

Engineered for superior performance, the D825R3-CR-TA-620 delivers 600 kW of prime power with advanced turbocharged technology. This 6-cylinder 19.6L diesel engine combines high efficiency with robust construction for demanding power generation needs.



YUCHAIMOTOR.COM

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 | 152x 180 |
| Displacement | 19.6L |
| 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 | SAE1 /14" |
| Lubrication Oil capacity | 56L |
| Coolant capacity | 160L |
| Emission class | Stage III |

The engine performance

Gross Engine Output 50Hz

| | |
|-----|---------|
| PRP | 668 kWm |
| ESP | 735 kWm |

Typical Generator Output 50Hz

| | |
|-----|---------|
| PRP | 600 kWe |
| PRP | 750 kVA |
| ESP | 825 kVA |

Fuel consumption

| | | |
|-----------------|-------------|-----------|
| STANDBY(ESP) | 212.6 g/kWh | 187.1 L/h |
| PRIME(PRP) | 208.0 g/kWh | 166.4 L/h |
| 75% PRP (prime) | 210.3 g/kWh | 84.1 L/h |
| 50% PRP (prime) | 207.4 g/kWh | 124.4 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
- ✓ High pressure common-rail system, multiple jets injectors
- ✓ ECU control/monitoring system
- ✓ Duplex fine fuel filters
- ✓ Rear mounted air filter with restriction indicator
- ✓ 24V DC electric system with 2 starters 7.5kW each
- ✓ 55A charging alternator
- ✓ Heat isolated exhaust manifold

Dimensions & Weight

Dimensions & Weight

Including radiator (dry weight)

2445

Length (mm)

1828

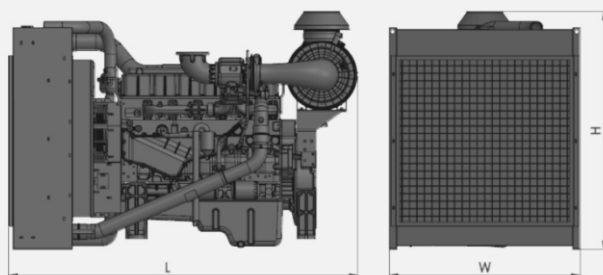
Width (mm)

1827

Height (mm)

2376

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