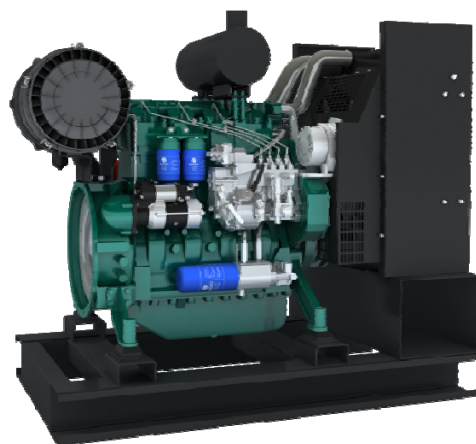


G-Drive Engine WP4D100E200

General Specifications

| | |
|-------------------|---------------------|
| Bore & Stroke | 105x130 mm |
| Displacement | 4.5 L |
| Cylinder Number | 4 |
| Compression Ratio | 18:1 |
| Fuel System | Mechanical Pump |
| Governor Method | Mechanic/Electronic |
| Aspiration | T/TA |
| Emission Standard | EU Stage II |



| Engine Speed | Engine Output | | Typical Generator Output |
|--------------|---------------|--------------|--------------------------|
| | Prime(PRP) | Standby(ESP) | |
| RPM | kW | kW | kWe/kVA |
| 1500 | 90 | 100 | 80/100 |

| Engine Speed | Engine Output | | Typical Generator Output |
|--------------|---------------|--------------|--------------------------|
| | Prime(PRP) | Standby(ESP) | |
| RPM | kW | kW | kWe/kVA |
| 1800 | 90 | 100 | 80/100 |

Standard Equipment

Engine and block

- Cast iron gantry type structure block
- One-piece forged crankshaft
- Separate cast iron cylinder heads and wet liners
- Aluminium alloy pistons with gallery oil cooling

Cooling system

- Radiator and hoses supplied separately
- Thermostatically-controlled system with belt driven coolant pump and pusher fan

Lubrication system

- Flat bottom large capacity oil pan (10 L)
- Spin-on full-flow lub oil filter
- Special design connector for oil heater and drawing off oil pump

Fuel system

- P type fuel injection pump and injector for higher inject pressure
- Duplex fine filter and large capacity pre-filter for better efficiency

Air intake and exhaust system

- Top mounted turbocharger optimized for gen-set application
- Special rear mounted air filter with restriction indicator
- High performance silencer as standard
- Stainless steel exhaust manifold shield for heat isolating

Electrical system

- 24V electric starter motor and battery charging alternator
- Standard sensor connector

Flywheel and housing

- SAE3 flywheel housing and 11.5" flywheel

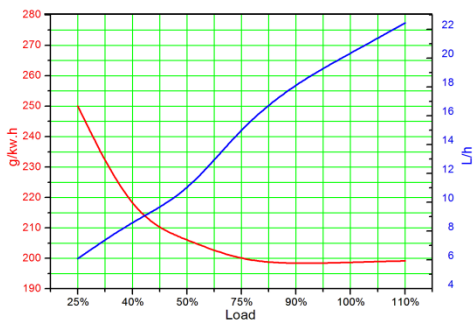
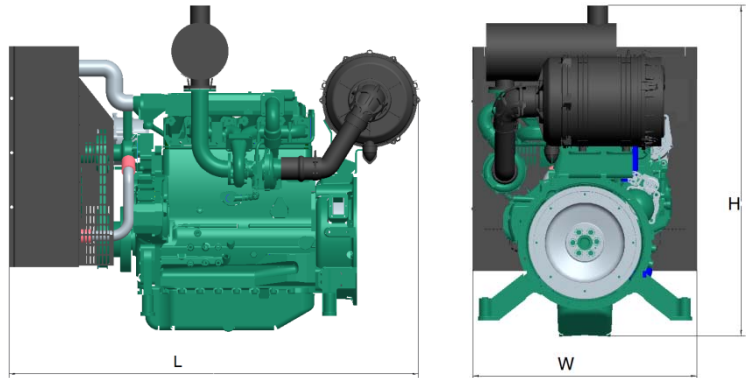
Optional Equipment

- Radiator for tropical environment (50°C)
- Shutoff solenoid mounted on the fuel pump
- Air heater for cold start
- Manual drawing off oil pump
- Tool Kits
- 12V electrical system

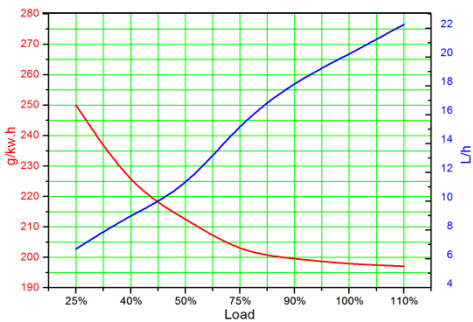
| | Continuous Power(COP) | Prime Power(PRP) | Standby Power(ESP) |
|-------------------------|------------------------------|----------------------------|--------------------|
| Mean engine load factor | 100% | ≤70% per 250 h | ≤80% per 24 h |
| Annual working time | Unlimited | Unlimited | ≤200 h |
| Time at full load | Unlimited(Max. load≤85% PRP) | ≤500 h per year | ≤25 h per year |
| Overload capacity | No | 1 h per 12 h(10% overload) | No |

Dimensions and Weight

| | T | TA |
|--------|---------|---------|
| Length | 1438 mm | 1582 mm |
| Width | 774 mm | 764 mm |
| Height | 1138 mm | 1139 mm |
| Weight | 550kg | 570kg |



WP4D100E200-90kW/1500rpm



WP4D100E201-90kW/1800rpm

Power definition

Standard ISO 3046/1 -1995(F)

Reference conditions

| | |
|---------------------|--------|
| Ambiant temperature | 25°C |
| Barometric pressure | 100kPa |
| Relative humidity | 30% |

Fuel

| | |
|------------------------|--------------|
| Relative density | 0.840±0.005 |
| Lower calorific power | 42 700 kJ/kg |
| Consumption tolerances | ± 5 % |

Lube oil

| | |
|-----------------|-----------|
| Recommend grade | CF 15W/40 |
|-----------------|-----------|