

## G-Drive Engine- WP4 Series

### 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 (rpm)	Engine Output		Typical Generator Output
	Prime(PRP)	Standby(ESP)	
	kW	kW	kWe/kVA
1500	60	66	50/63
1500	90	100	75/94

Engine Speed (rpm)	Engine Output		Typical Generator Output
	Prime(PRP)	Standby(ESP)	
	kW	kW	kWe/kVA
1800	60	66	50/63
1800	90	100	75/94
1800	108	118	90/113

### Standard Equipments

#### 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

### Optional Equipments

- Radiator for tropical environment (50°C); Shutoff solenoid mounted on the fuel pump; Water separated filter;
- Immersion heater with thermostat; Air heater for cold start; CE Certificate and nameplate; Manual drawing off oil pump; Tool Kits;

#### Fuel system

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

#### Intake air and exhaust system

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

#### Electrical system

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

#### Flywheel and housing

- SAE3 flywheel housing and SAE 11.5 size flywheel

#### 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

**WEICHAI**

Overload capacity

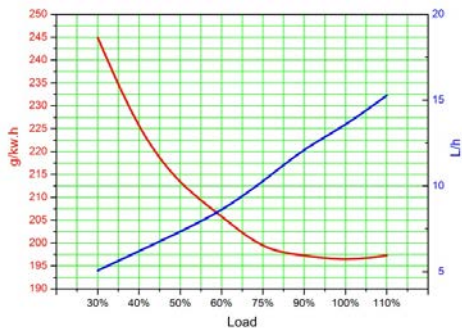
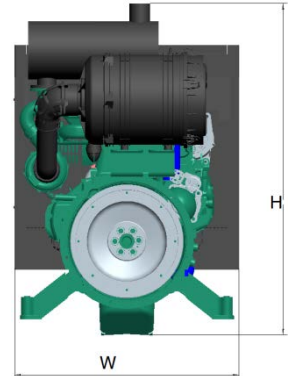
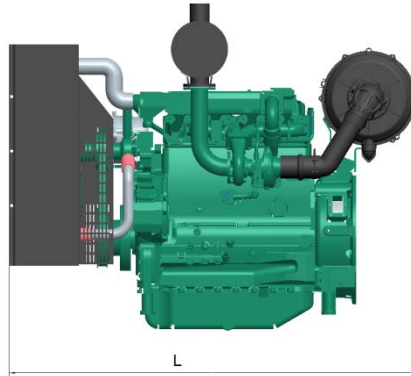
No

1 h per 12 h(10% overload)

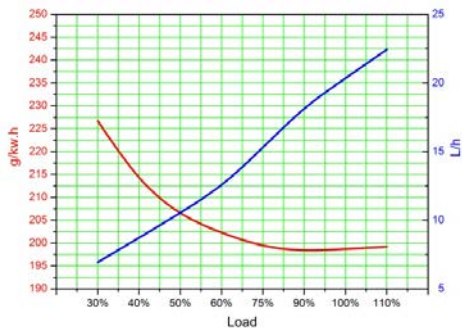
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## Dimensions (T/TA)

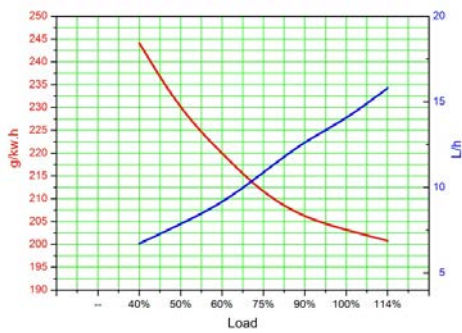
Length	1431 mm	1546 mm
Width	774 mm	750 mm
Height	1136 mm	1139 mm
Weight	550 kg	550 kg



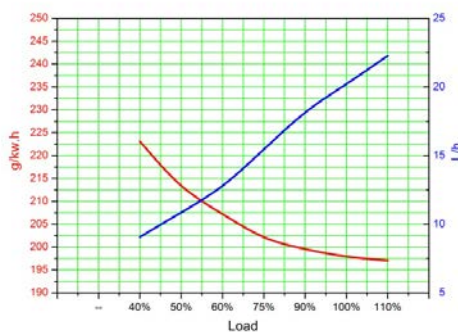
WP4D66E200-60kW /1500rpm



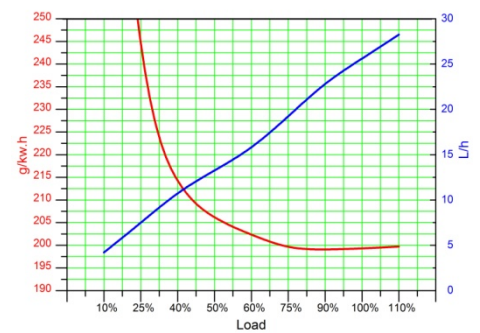
WP4D100E200-90kW/1500rpm



WP4D66E201-60kW /1800rpm



WP4D100E201-90kW/1800rpm



WP4D118E201-108kW/1800rpm

### Power definition

Standard ISO 3046/1 -1995(F)

### Reference conditions

Ambiant temperature	25 °C
Barometric pressure	100 kPa
Relative humidity	30%
Raw water temperature	25 °C

### Fuel oil

Relative density	0,840 ± 0,005
Lower calorific power	42 700 kJ/kg
Consumption tolerances	0 ± 5 %

### Lube oil

Recommend grade	CD 15W/40
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Manufacturer: Weichai Power Co., Ltd

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Website: [www.weichai.com](http://www.weichai.com)

