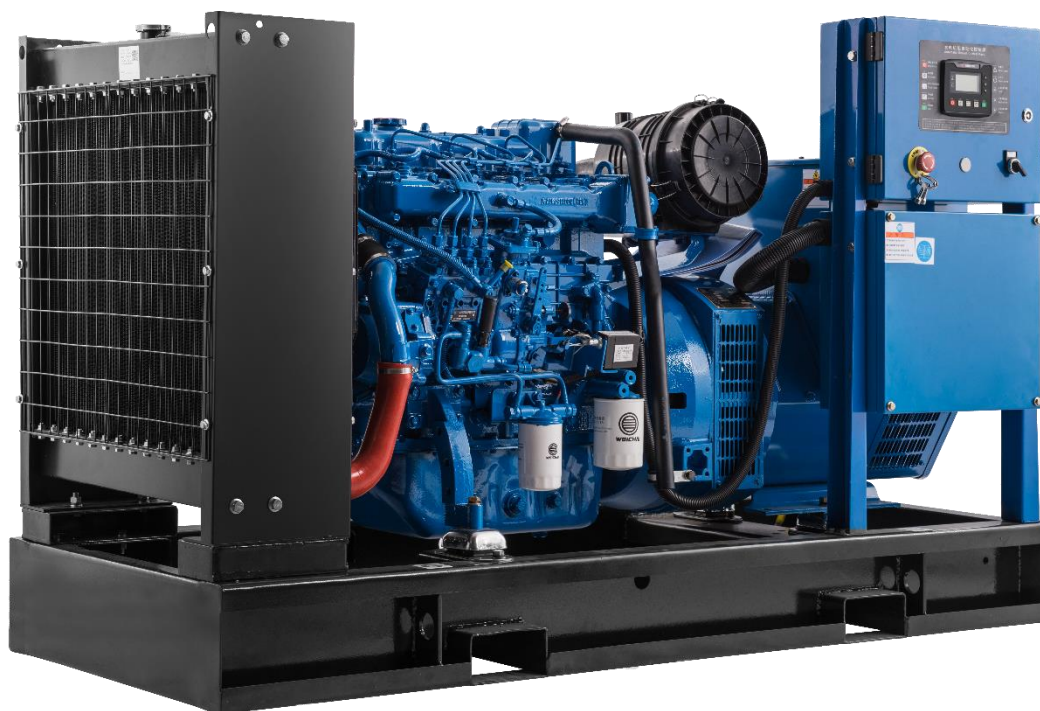


## Land Based Genset- WP4.1 Series

### WPG80 / WPG100

100-125kVA, 74-90kWe Prime



**WEICHA**

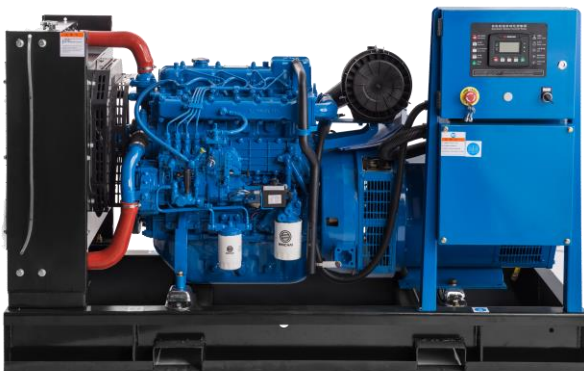


 **dinatek**

[www.dinatek.ec](http://www.dinatek.ec)

## Engine

- Weichai **WP4.1** series, 4 cylinder, in-line 4 stroke, radiator cooled engine
- Well-designed air handling system with
  - Dry type, Replaceable paper element air cleaner with restriction indicator
  - Air to air after cooling
  - Optimized turbocharger for increased altitude capabilities
  - High efficiency, large heat area intercooler, reduce the air temperature after the intercooler
- Fuel system with A1 class electronic governing
- Standard integral set-mounted radiator system, designed and tested for 50°C ambient temperature
- First fill of lube oil and coolant
- Electrical starter motor with soft start engagement feature
- Intelligent fuel injection technology to start fast guarantee
- Battery charging alternator
- 12 V DC batteries



## Alternator

- Brushless type, Screen protected, Revolving field, Self excited alternator conforming to IS/IEC 60034-1
- Best in class efficiency
- Steel casing
- Compact design with sealed bearings for longer life and lesser maintenance
- IP23 standard protection level
- Impregnation on all wound components for better mechanical strength

## Control Module Specifications

### The DSE6020 is an Auto Mains Failure Control Module

- Back-lit LCD display
- 3 Phase generator and 3 Phase Mains monitoring
- Monitoring speed, frequency, voltage, current, oil pressure, coolant temperature and fuel level
- Display warning, shutdown and engine status information
- Hours counter provides accurate information for monitoring and maintenance



## Technical Data

### Generator Set Specification

<b>Model</b>	WPG80*16	WPG100*16
<b>Standby Rating kVA/kWe</b>	100/80	125/100
<b>Prime Rating kVA/kWe</b>	93/74	113/90
<b>Voltage V</b>	440/254	440/254
<b>Frequency Hz</b>	60	60
<b>Power Factor</b>	0.8(lagging)	0.8(lagging)
<b>No. of Phases</b>	3	3

### Engine specification

<b>Make</b>	Weichai	Weichai
<b>Model</b>	WP4.1D95E201	WP4.1D115E211
<b>Rated Speed</b>	1800	1800
<b>Prime Power</b>	85	105
<b>Cooling System</b>	Liquid (water + 50% antifreeze)	Liquid (water + 50% antifreeze)
<b>Governor</b>	Electronic	Electronic
<b>Aspiration</b>	Turbocharged	Turbocharged and after cooled
<b>No. of cylinders</b>	4,in-line	4,in-line
<b>Bore (mm) x Stroke (mm)</b>	105x118	105x118
<b>Displacement (L)</b>	4.1	4.1
<b>Fuel consumption@75%(L/h)</b>	15	19
<b>Fuel consumption@100% (L/h)</b>	20.5	25.6
<b>Starting system</b>	12VDC Electrical	12VDC Electrical
<b>Total lubrication system capacity (L)</b>	12	12
<b>Total coolant capacity (L)</b>	16.4	22.4
<b>Cooling fan airflow (m<sup>3</sup>/min)</b>	190	190
<b>Exhaust Temperature (°C)</b>	≤570	≤570
<b>Recommended air flow @ PRP (m<sup>3</sup>/min)</b>	4.1	5.74
<b>Exhaust back pressure (mBar)</b>	50	50
<b>Radiator design temperature (°C)</b>	50	50

### Alternator specification

<b>Make</b>	WEICHA	WEICHA
<b>Alternator Frame</b>	XN224F	XN274C
<b>Exciter Type</b>	Self-excitation	Self-excitation
<b>Enclosure</b>	IP23/IP21	IP23/IP21
<b>Voltage regulation</b>	≤±1%	≤±1%
<b>Class of Insulation</b>	H	H
<b>Winding Pitch</b>	2/3	2/3
<b>Rotor</b>	Single bearing	Single bearing

## Remarks

**Prime Rating:** These ratings are applicable for supplying continuous electrical power (at variable load) in the lieu of commercially purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

**Standby Rating:** These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings. The alternator on this model is peak continuous tested (as defined in ISO 8528-3).

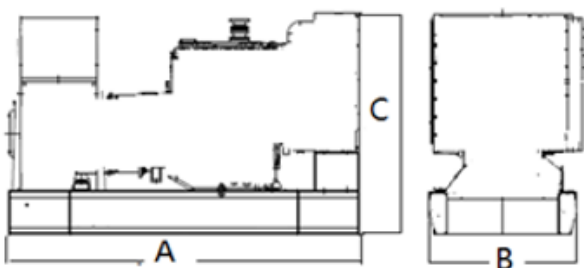
## Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) Air Inlet Temp, 100m (328 ft) A.S.L. 30% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

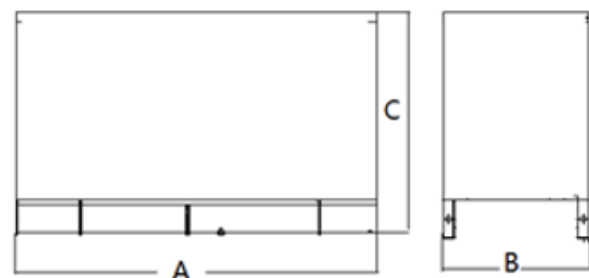
## Genset Dimensions (F: Open Series with fuel base tank / L: Silent Canopy Series)

Genset Mode	Prime Rating (kVA)	Length A(mm)	Width B(mm)	Height C(mm)	Weight (kg)	Standard Fuel tank Capacity (L)
WPG80B16	93	2050	965	1450	1200	/
WPG100B16	113	2100	965	1450	1250	/
WPG80F16	93	2050	965	1450	1250	100
WPG100F16	113	2100	965	1450	1300	100
WPG80L16	93	2880	1050	1730	1700	180
WPG100L16	113	2880	1050	1730	1770	180

Open genset



Enclosed genset



## Sales Promises

Each and every unit is strictly factory tested.

Warranty time: Prime duty 1 year or 1000Hours. Stand-by duty 2 years or 1000 hours.

Service and parts are available from Weichai Power or distributors in your location.

Distributed By:



Manufacturer: Weichai Heavy Machinery Co., Ltd  
Address: 197 A, Fuzhou East Street, High-Tech  
Development Zone, Weifang, China  
www.weichaihm.com

