

## Land Based Genset - WP10 Series

### WPG200 / WPG225 / WPG250 / WPG275

200-320kVA, 160-250kWe Prime



**WEICHAI**



 **dinatek**

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## Engine

- Weichai **WP10** series, 6 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
- 2 x 24 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

Model	WPG200*86	WPG225*86	WPG250*86	WPG275*86
Standby Rating kVA/kWe	250/200	281/225	313/250	344/275
Prime Rating kVA/kWe	225/180	250/200	280/224	313/250
Voltage V	440	440	440	440
Frequency Hz	60	60	60	60
Power Factor	0.8(lagging)	0.8(lagging)	0.8(lagging)	0.8(lagging)
No. of Phases	3	3	3	3

### Engine specification

Make	Weichai	Weichai	Weichai	Weichai
Mode	WP10D238E201	WP10D264E201	WP10D288E201	WP10D360E201
Rated Speed	1800	1800	1800	1800
Prime Power	216	240	262	327
Cooling	Liquid cooled	Liquid cooled	Liquid cooled	Liquid cooled
Governor	Electronic	Electronic	Electronic	Electronic
Aspiration	Turbocharged and after cooled	Turbocharged and after cooled	Turbocharged and after cooled	Turbocharged and after cooled
No. of cylinders	6,in-line	6,in-line	6,in-line	6,in-line
Bore (mm) x Stroke (mm)	126x130	126x130	126x130	126x130
Displacement (L)	9.726	9.726	9.726	9.726
Fuel consumption@75%(L/h)	38.73	42.37	46.05	58.72
Fuel consumption@100% (L/h)	51.41	56.74	62.87	79.48
Starting system	24VDC Electrical	24VDC Electrical	24VDC Electrical	24VDC Electrical
Total lub. system capacity (L)	30	30	30	30
Total coolant capacity (L)	42	42	42	42
Cooling fan airflow (m <sup>3</sup> /min)	415	415	415	415
Exhaust Temperature (°C)	≤600	≤600	≤600	≤600
Recom. air flow @ PRP (m <sup>3</sup> /min)	13.2	14.4	16.8	20
Exhaust back pressure (mBar)	≤60	≤60	≤60	≤110
Radiator design temp. (C°)	50	50	50	50

### Alternator specification

Make	WEICHA	WEICHA	WEICHA	WEICHA
Alternator Frame	XN274G	XN274J	XN274J	XN4D
Exciter Type	Self-excitation	Self-excitation	Self-excitation	Self-excitation
Enclosure	IP23/IP21	IP23/IP21	IP23/IP21	IP23/IP21
Voltageregulation	≤±1%	≤±1%	≤±1%	≤±1%
Class of Insulation	H	H	H	H
Winding Pitch	2/3	2/3	2/3	2/3
Rotor	Single bearing	Single bearing	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).

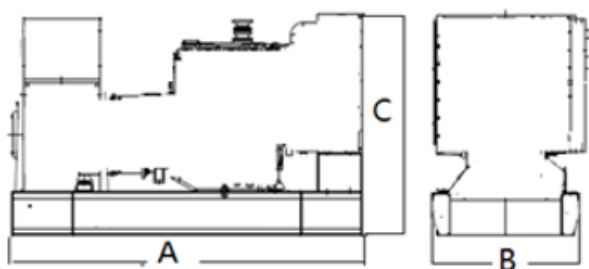
## Standard Reference Conditions

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.

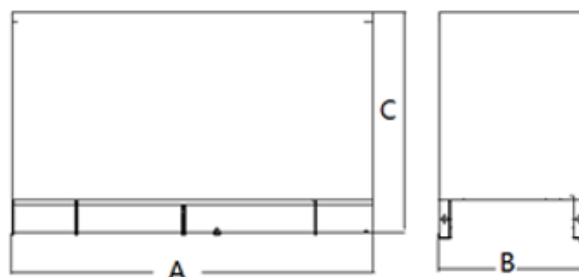
## Genset Dimensions (F: Open Series with fuel base tank / L: Silent Canopy Series)

Genset Mode	PrimeRating (kVA)	Length A(mm)	Width B(mm)	Height C(mm)	WetWeight (kg)	Standard Fuel tank Capacity (L)
WPG200F86	225	2999	1170	1920	2300	420
WPG225F86	250	2999	1170	1920	2420	420
WPG250F86	280	2999	1170	1920	2440	420
WPG275F86	313	2999	1170	1920	2720	420
WPG200L86	225	3900	1350	2050	3020	560
WPG225L86	250	3900	1350	2050	3050	560
WPG250L86	280	3900	1350	2050	3150	560
WPG275L86	313	4200	1350	2050	3550	505

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, Fushou East Street, High-Tech  
Development Zone, Weifang, China  
www.weichaihm.com

