

Land Based Genset- WP6 Series

WPG120 / WPG135 / WPG150 / WPG175

150-219kVA, 108-140kWe Prime



WEICHA



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Engine

- Weichai **WP6** 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 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

Model	WPG120*96	WPG135*96	WPG150*96	WPG175*96
Standby Rating kVA/kWe	150/120	169/135	188/150	219/175
Prime Rating kVA/kWe	135/108	150/120	175/140	/
Voltage V	440/254	440/254	440/254	440/254
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
Model	WP6D132E201	WP6D158E201	WP6D180E201	WP6D200E201
Rated Speed	1800	1800	1800	1800
Prime Power	120	144	164	200(ESP)
Cooling System	Liquid (water + 50% antifreeze)	Liquid (water + 50% antifreeze)	Liquid (water + 50% antifreeze)	Liquid (water + 50% antifreeze)
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)	105x130	105x130	105x130	105x130
Displacement (L)	6.75	6.75	6.75	6.75
Fuel consump.@75% (L/h)	22	24	28	31
Fuel consump.@100 (L/h)	29.5	32.5	37.8	41.6
Starting system	24VDC Electrical	24VDC Electrical	24VDC Electrical	24VDC Electrical
Total Lub. Oil capacity (L)	18	18	18	18
Total coolant capacity (L)	20	20	20	20
Cooling fan airflow(m3/min)	358	358	358	358
Exhaust Temperature (°C)	≤550	≤550	≤550	≤550
Air flow @ PRP (m³/min)	8.4	9.9	10.92	12.7(@ESP)
Exhaust back Pres. (mBar)	≤60	≤60	≤60	≤60
Radiator design temp. (C°)	50	50	50	50

Alternator specification

Make	WEICHAO	WEICHAO	WEICHAO	WEICHAO
Alternator Frame	XN274DS	XN274DS	XN274E	XN274G
Exciter Type	Self-excitation	Self-excitation	Self-excitation	Self-excitation
Enclosure	IP23/IP21	IP23/IP21	IP23/IP21	IP23/IP21
Voltage regulation	±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).

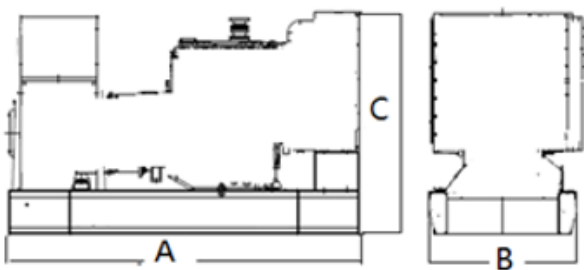
Standard Reference Conditions

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.

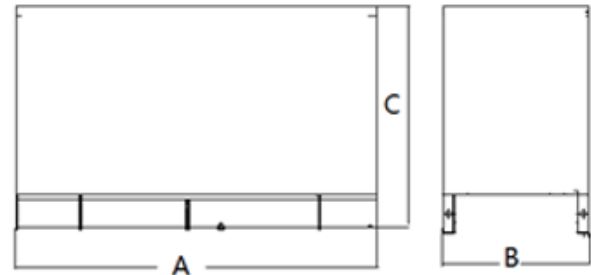
Genset Dimensions (F: Open Series with fuel base tank / L: Silent Canopy Series)

Genset Mode	Prime Rating (kVA)	Length A(mm)	Width B(mm)	Height C(mm)	Weight (kg)	Standard Fuel tank Capacity (L)
WPG120F96	135	2500	960	1600	1600	160
WPG135F96	150	2500	960	1600	1670	160
WPG150F96	168	2500	960	1600	1720	160
WPG175F96	219(ESP)	2500	960	1600	1770	160
WPG120L96	135	3200	1100	1850	2040	360
WPG135L96	150	3200	1100	1850	2050	360
WPG150L96	168	3200	1100	1850	2070	360
WPG175L96	219(ESP)	3200	1100	1850	2120	360

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
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www.weichaihm.com

