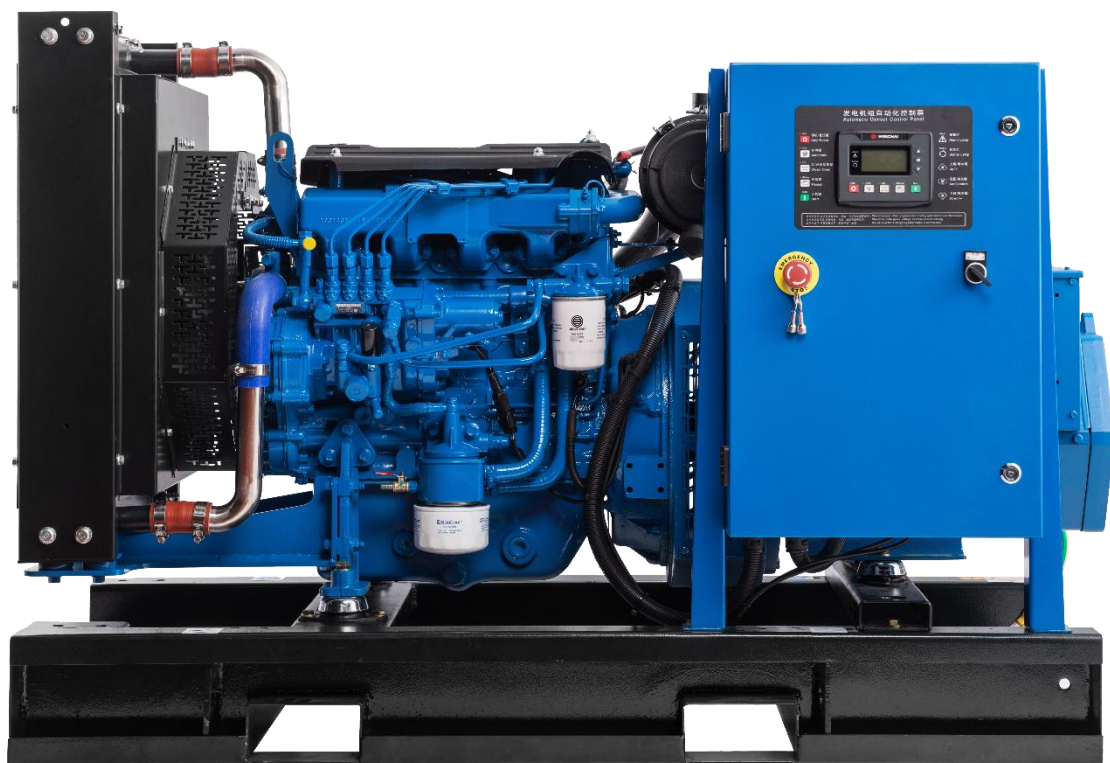


Land Based Genset- WP2.3 Series

WPG15 / WPG25 / WPG35 / WPG40 / WPG50

19-63kVA, 14-44kW Prime



WEICHAI

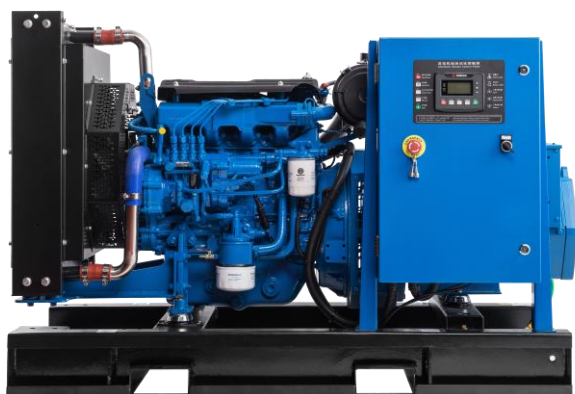


 **dinatek**

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Engine

- Weichai **WP2.3** 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
- 1 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	WPG15*16	WPG25*16	WPG35*16	WPG40*16	WPG50*16
Standby Rating kVA/kWe	19/15	31/25	44/35	50/40	63/50
Prime Rating kVA/kWe	18/14	28/22	40/32	45/36	55/44
Voltage V	440/254	440/254	440/254	440/254	440/254
Frequency Hz	60	60	60	60	60
Power Factor	1 or 0.8(lagging)	1 or 0.8(lagging)	0.8(lagging)	0.8(lagging)	0.8(lagging)
No. of Phases	1 or 3	1 or 3	3	3	3

Engine specification

Make	Weichai / Baudouin				
Model	WP2.3D25E201	WP2.3D30E201	WP2.3D41E201	WP2.3D47E201	WP2.3D63E211
Rated Speed	1800	1800	1800	1800	1800
Prime Power	23	27	37	43	58
Cooling	Liquid cooled	Liquid cooled	Liquid cooled	Liquid cooled	Liquid cooled
Governor	Electronic	Electronic	Electronic	Electronic	Electronic
Aspiration	NA	NA	T	T	TA
No. of cylinders	4,in-line	4,in-line	4,in-line	4,in-line	4,in-line
Bore (mm) x Stroke (mm)	89x92	89x92	89x92	89x92	89x92
Displacement (L)	2.3	2.3	2.3	2.3	2.3
Fuel consumption@75%(L/h)	3.5	5.5	8	9	11
Fuel consump. @100% (L/h)	4.6	7.3	10.6	12	14.6
Starting system	12VDC Electrical	12VDC Electrical	12VDC Electrical	12VDC Electrical	12VDC Electrical
Total lub. system capacity (L)	9.5	9.5	9.5	9.5	9.5
Total coolant capacity (L)	8.2	8.2	9.4	9.4	15
Cooling fan airflow (m³/min)	55	55	55	55	120
Exhaust Temperature (°C)	≤700	≤700	≤650	≤650	≤650
Rec. Air flow @ PRP (m³/min)	58	58	58	58	127
Exhaust back pressure (mBar)	≤80	≤80	≤80	≤80	≤80
Radiator design temp. (°C)	50	50	50	50	50

Alternator specification

Make	Weichai / Baudouin				
Alternator Frame	XN164D	XN184E	XN184H	XN184H	XN184J
Exciter Type	Self-excitation	Self-excitation	Self-excitation	Self-excitation	Self-excitation
Enclosure	IP23/IP21	IP23/IP21	IP23/IP21	IP23/IP21	IP23/IP21
Voltage regulation	≤±1%	≤±1%	≤±1%	≤±1%	≤±1%
Class of Insulation	H	H	H	H	H
Winding Pitch	2/3	2/3	2/3	2/3	2/3
Rotor	Single bearing	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).

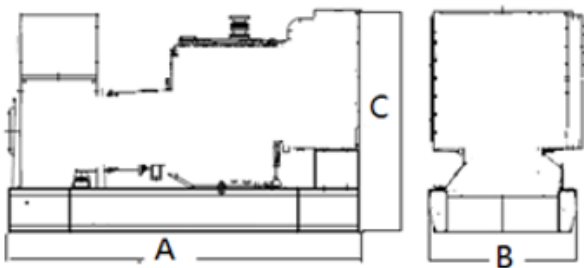
Standard Reference Conditions

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.

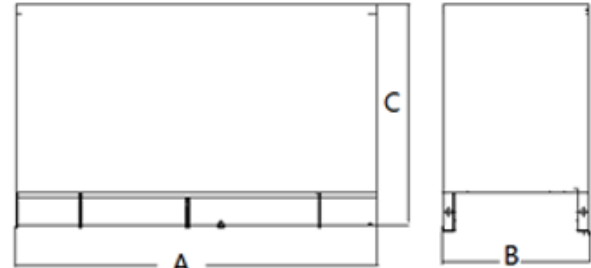
Genset Dimensions (F: Open Series with fuel base tank / L: Silent Canopy Series)

Genset Mode	Prime Rating (kVA)	Length A(mm)	Width B(mm)	Height C(mm)	Wet Weight (kg)	Standard Fuel tank Capacity (L)
WPG15F16	18	2050	965	1470	750	55
WPG25F16	28	1400	780	1150	600	55
WPG35F16	40	1400	780	1150	600	55
WPG40F16	45	1470	780	1130	620	55
WPG50F16	55	1470	780	1130	650	55
WPG15L16	18	1900	720	1095	900	48
WPG25L16	28	1900	720	1095	900	48
WPG35L16	40	1900	720	1095	900	48
WPG40L16	45	1900	720	1095	900	48
WPG50L16	55	2200	880	1095	920	48

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

