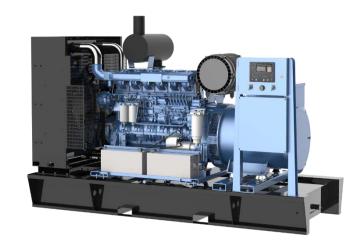


WPG275*8

DIESEL GENERATING SET

GENERATING SET RATINGS 50Hz – 1500rpm @ 0.8p.f.

Voltage	PRP		ESP	
V	kVA	kWe	kVA	kWe
415/240	250	200	275	200
400/230	250	200	275	200
380/220	250	200	275	200



PRODUCT FEATURES

Engine

- Cast iron frame style body structure
- One-piece forged crankshaft
- Separate cast iron cylinder heads and replaceable dry cylinder liners
- · Aluminum alloy pistons with oil cooling gallery

Cooling system

- ·Radiator and hoses supplied separately
- •Thermostatically-controlled system with belt driven coolant pump and pusher fan

Fuel system

- •P type fuel injection pump and injector for higher inject pressure
- Duplex fine filter and water separation filter assembly with transparent cup for better efficiency

Lubrication system

- •Flat bottom large capacity oil pan
- ·Spin-on full-flow lube oil filter
- ·High capacity gear driven lube oil pump

Electrical system

- 24 Vdc electric starter motor and battery charging alternator
- LOP + HWT sensors

Air intake and exhaust system

- Mid-position and below inlet turbocharger optimized or genset application
- · Special rear mounted air filter with restriction indicator
- · Exhaust manifold shield for heat isolating

Alternator

- •Brushless, 4 Pole, IP23 drip-proof revolving field design
- Class H insulation and Class H temperature rise
- •Low reactance with 2/3 pitch windings on the stator
- Direct-coupled by flexible disc
- •Sustained overcurrent >300% in 10 sec
- Direct drive centrifugal blower fan cooling

Control module

- •DSE control module is ideal for a wide control range to manage, monitor, and diagnose quickly and easily.
- Display status message Provide protection Auto shutdown at fault detection



GENERATING SET SPECIFICATIONS				
Governor and regulation class	In accord	dance to ISO 8528-5 Class G2 performance		
Phase number and connection		3 phase, 4 wires, Y-type		
Cooling method		Closed looped water-cooled		
Starting method	nethod DC 24V Electric starter			
Steady-state voltage deviation		≤± 2.5%		
Steady-state frequency band		≤1.5%		
ENGINE				
Brand / Model		Weichai / WP10D264E200		
Gross Power	kWm	ESP - 264 / PRP - 240		
Cylinder / Type / Aspiration		6 / In-line / Turbocharged and Aftercooled		
Bore x Stroke	mm	126 x 130		
Displacement	L	9.726		
Compression ratio		17:1		
Brake Mean Effective Pressure	kPa	ESP – 2171		

Type of Coolant		Liquid (water + 50% antifreeze)
Total Cooling System Capacity (with Radiator)	L	35
Max coolant temperature – shutdown	°C	105
Cooling Fan Airflow	m³/min	415
LUBRICATION SYSTEM		
Operating Temperature range before Engine	°C	78 -105
Oil fuel consumption ratio based on engine fuel consumption data	g/kW.hr	≤ 0.2%
Total system capacity (including filters)	L	30
Type of oil filter		Spin-on full flow filter



FUEL SYSTEM			
Type of fuel filter	Spin-on fuel filter		
Min. internal diameter of the supply pipe	mm	12	
Min. internal diameter of the return pipe	mm	12	
Max. fuel return restriction	Bar	0.5	
Max. fuel inlet temperature	°C	50	
Fuel supply flow	L/hr	169	
Fuel Consumption (Tolerance +3%)			
Rating	gr/k	kWh L/hr	
100%ESP	20	1.6 63.4	
100%PRP	199	9.1 56.9	
75% PRP	19	97 42.2	
50% PRP	198	8.3 28.3	
25% PRP	21	5.5 15.4	
EXHAUST SYSTEM			
Exhaust Gas temperature after the turbocharger	°C	600	
Exhaust Gas flow	m³/min	ESP - 50.6 / PRP - 46.8	
Max. Exhaust back pressure	mBar	60	

ALTERNATOR		
Brand / Model	WEICHAI / WHA-250-4/0.4	LEROY-SOMER / TAL-A46-D
Rated Current	361A	361A
Coupling / No. of Bearing	Direct / Single	Direct / Single
Winding Pitch	2/3	2/3
Type of Excitation	Self-excitation	Self-excitation
Cooling type	Air	Air
Voltage regulation method	AVR	AVR
Insurance	Class H	Class H
Temperature rise	Class H	Class H
Protection Grade	IP23	IP23
Efficiency at 0.8p.f.@100% load	92.7%	91.3%

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.





Ratings definitions

Emergency Standby Power (ESP):

Emergency Standby Power is the maximum power available for a varying load for the duration of a main power network failure. The average load factor over 24 hours of operation should not exceed 70% of the engine's ESP power rating.

Typical operational hours of the engine are 200 hours per year, with a maximum usage of 500 hours per year. This includes an annual maximum of 25 hours per year at the ESP power rating. No overload capability is allowed. The engine is not to be used for sustained utility paralleling applications.

Prime power (PRP):

Prime Power is the maximum power available for unlimited hours of usage in a variable load application. The average load factor should not exceed 70% of the engine's PRP power rating during any 24 hour period. An overload capability of 10% is available; however, this is limited to 1 hour within every 12 hour period.

Open genset

Silence genset



This outline drawing is to provide representative configuration details for Model series only.

See respective model data sheet for specific model outline drawing number.

Do not use for installation design

Ddimension and Weight

Structure	Model	Dim "A" mm	Dim "B" mm	Dim "C" mm	Dry wt.* kg
Open	WPG275F8	2999	1170	1920	2440
Silence	WPG275L8	3900	1350	2050	3160

^{*} Note: Weights represent a set with standard features. See outline drawings for weights of other configurations.

Codes and standards

ISO 9001 This generating set is designed and manufactured in facilities certified to ISO 9001.

The CE marking is only valid when equipment is used in a fixed installation application. Material compliance declaration is available upon request.

For more information contact your local Weichai distributor or visit www.weichai.com