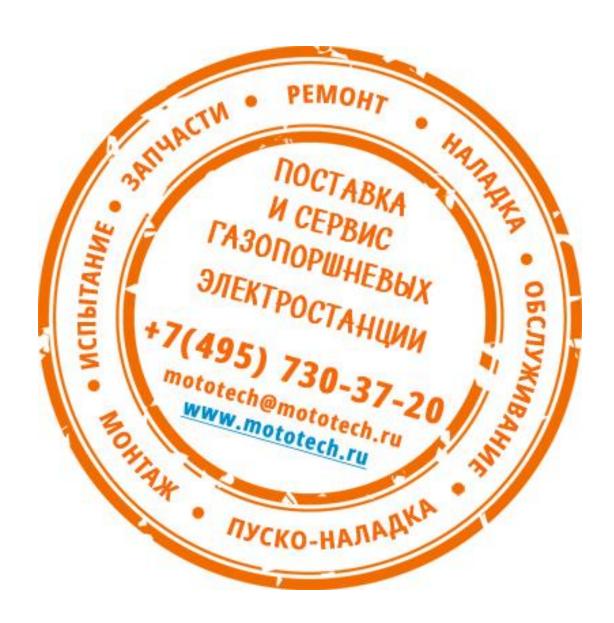


WEICHAI GEN-SETS DATASHEET





Gen-set specifications

Model	WPG312B(L)8NG			
Prime Rating kVA/kWe	312/250			
Continual Rating kVA/kWe	250/200			
Voltage V	400/230			
Frequency Hz	50			
Power Factor	0.8(lagging)			
No. of Phases	3			
Sound@7m (dB·(A))	Open: ≤99 dB (A); Silence: ≤85 dB (A)			
Ambient temp (°C)	-10 \sim 40 (If <-10, oil and water heating; If $>$ 40, power correction)			
Altitude(m)	≤1000			
Fuel	Pipeline natural gas; MN≥85			
Gas supply pressure(kPa)	Max. inlet 50 (Special pressure, contact with company)			
Steady-state voltage deviation	≤±2.5%			
Transient voltage deviation (100%sudden power decrease/increase)	+25% ~ -20%			
Voltage steady time(s)	2			
Steady-state frequency band	≤1.5%			
Transient frequency deviation from rated frequency (100% sudden power decrease/increase)	±18%			
Frequency steady time(s)	15			

Standard Features

◆ ECU	◆DC24 Electric starter	◆ DSE6120MKIII	
◆ Closed water-cooled	◆ IP23	◆H type insulation	
◆ Air filter	◆ Muffler	◆ Circuit Breaker	
◆Starting batteries	♦ with connective wires	◆ Radiator	
◆Oil Drain Valve	◆Forklift Groove	◆Shock Absorber	
◆ Color	Weichai blue (B)/beige canopy and black chassis (L) Packing case(B)/Wrapping sheet(L)		
◆ Packaging			

Options

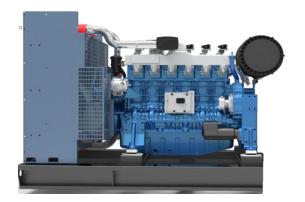
♦Voltage380V/400V	♦Voltage 415V/440V	♦ Voltage 6.3kV/10.5kV /13.8kV
♦Single Voltage 220V/230V/240V	♦ Automatic Transfer Switch	♦ Automatic Parallel system
♦Engine Heater (water)	♦ Engine Heater (oil	♦ Alternator heater



◇PMG/AREP

Engine

- Weichai **WP13NG** series, 6 cylinder, in-line 4 stroke, radiator cooled engine
- Well-designed air handling system with
 - Air cleaner
 - Replaceable paper element air cleaner with restriction indicator
 - Optimized turbocharger for increased altitude capabilities
 - High efficiency, large heat area intercooler,
 reduce the air temperature after the intercooler
- First fill of lube oil and coolant
- NG gas regulator
- NG gas filter
- Standard integral set-mounted radiator system,
 designed and tested for 40°C ambient temperature
- Electrical starter motor with soft start engagement feature
- Intelligent fuel injection technology to start fast guarantee
- Battery charging alternator
- 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 DSE6120MKIII 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
- Display warning, shutdown and engine status information
- Hours counter provides accurate information for monitoring and maintenance





Engine specifications				
Make		WEICHAI		
Mode		WP13D317E300NG		
Rated Speed r/min		1500		
Prime Power kW		288		
Cooling		Close Liquid cooled		
Governor		ECU		
Aspiration	Tui	rbocharged, Inter-cod	oled	
No. of cylinders	6, in-line			
Bore (mm) x Stroke (mm)	127×165			
Displacement (L)	12.54			
Starting system		24VDC Electrical		
Total coolant capacity engine/tank (L)		25/19.5		
Radiator design temperature (°C)		40		
Lubrication system capacity (L)	36			
Load rate (%)	100 75 50			
Fuel consumption (kg/h)	54.21	44.40	29.50 47	
Fuel consumption (MJ/h)	2602	2131	1416	
Fuel consumption (m³/h) 8000 Kcal	77.67	63.62	42.27 BKA	
Engine high water heat quantity(kJ/s)	165.00	146.00	7A30 110.00/C	
Engine high water flow(m³/h)	22.3	IAF	ЭЛЕКТРОСТИВНЕВЫХ	
Engine high water inlet/outlet Tem. (°C)	82.58/88.0	信 +7	1400 GTAHUNN	
Engine high water inlet/outlet Pre. (kPa)	20.6/45.5	/ <u>S</u>	totach 730-37	
Exhaust gas heat quantity(kJ/s)	231.34	198.00	129.24	
Exhaust gas flow (kg/h)	1458.91	1180.40	738.50	
Exhaust Temperature (°C)	536 542 550			
Exhaust back pressure (mbar)	75			
Exhaust Temperature after recycle(°C)	Heating water120/0.5Mpa steam 190/1MPa steam 220			

Alternator specifications Make WEICHAI or LERYSOMER Alternator Frame WHA-312.5-4/0.4 or TAL A46 G Exciter Type Self-excitation Enclosure IP23 Voltage regulation ≤±1% Class of Insulation H



Winding Pitch	2/3
Rotor	Single bearing

Remarks

Prime Rating (PRP):

Prime power is defined as being the maximum power which a generating set is capable of delivering continuously while supplying a available electrical load when operated for an unlimited number of hours per year under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed.

Continual Rating (COP):

These ratings are applicable for supplying continuous electrical power (at 100% load) in the event of a utility power failure. There is no limitation to the annual hours of operation under the agreed operating conditions with the maintenance intervals and procedures being carried out as prescribed.

Standard Reference Conditions

Standard operating environment: ambient temperature is $-10^{\circ}\text{C} \sim 40^{\circ}\text{C}$, the altitude is less than 1000m,the relative humidity is less than 90%(25 $^{\circ}\text{C}$) and there is no dust\stand dust\salt fog\mold\condensation environment, etc.

Fuel consumption data at full load with diesel fuel with specific gravity of 0.726 kg/N m³ and low calorific value of 47.9 MJ/kg.

If the operating environment exceeds the above requirements, please contact with the factory.

Typical Genset Dimensions					
Genset Model	Length A(mm)	Width B(mm)	Height C(mm)	Wet Weight (kg)	Note
WPG312B8NG	3200	1345	4885	2960	
WPG312L8NG	4450	1280	2200	3773	

Note: This size cannot be used for design, for design, please contact with company.

Open genset Silence genset



