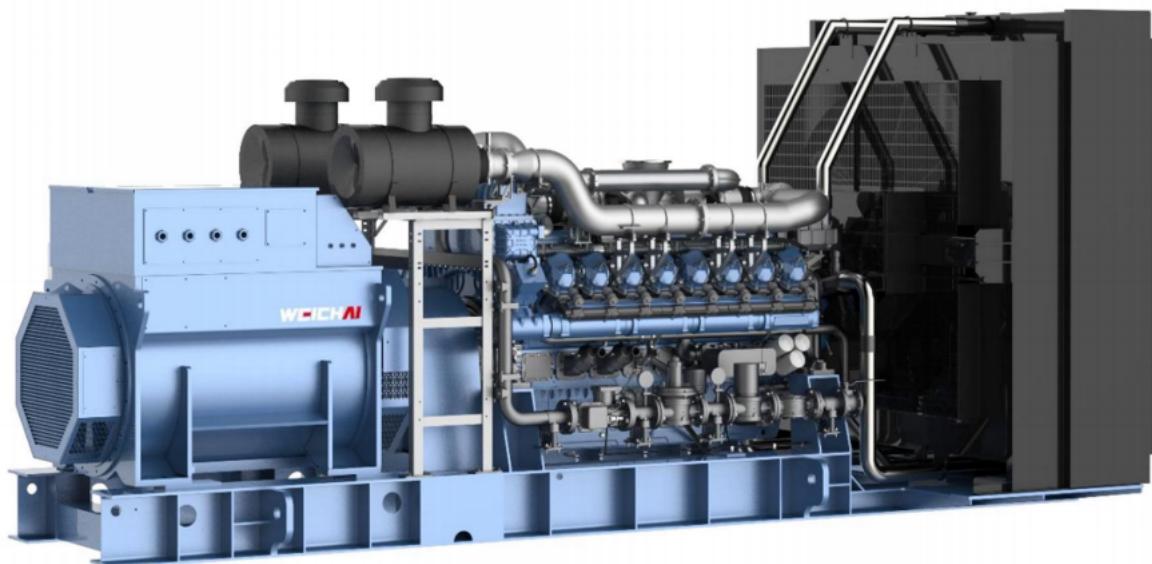


# WP1100GFQW

## GAS GEN-SETS DATASHEET



# Gen-set specifications

Model	WP1100GFQW
Prime Rating kVA/kWe	1375/1100
Continual Rating kVA/kWe	1375/1100
Voltage V	400/230
Frequency Hz	50
Power Factor	0.8(lagging)
No.of Phases	3
Sound@7m (dB·(A))	Open: ≤99dB (A) ; Silence: ≤85dB (A)
Ambienttemp (°C)	-10~40 (If<-10, oil and water heating; If>40, power correction)
Altitude(m)	≤2000
Fuel	Pipelinenaturalgas; MN≥85
Gas supply pressure(kPa)	Max.inlet50(Special pressure, contact with company)
Steady-state voltage deviation	≤±5%
Transient voltage deviation (100% sudden power decrease/increase)	+35%~ -25%
Voltage steady time(s)	10
Steady-state frequency band	≤2.5%
Transient frequency deviation from rated frequency	100% sudden power decrease≤+18%; 30% sudden power increase≤-25%
Frequency steady time(s)	10

## Standard Features

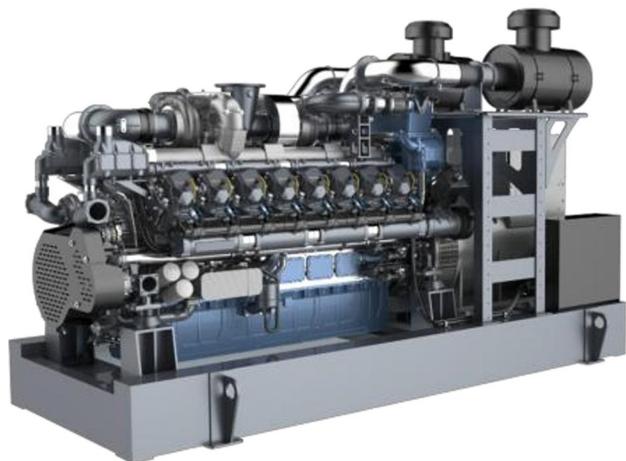
- ◆ECU
- ◆Closed water-cooled
- ◆Air filter
- ◆Starting batteries
- ◆Oil Drain Valve
- ◆Color
- ◆Packaging
- ◆DC24 Electric starter
- ◆IP23
- ◆Muffler
- ◆with connective wires
- ◆Forklift Groove
- Beige
- Wrapping sheet(L)
- ◆HGM6120CAN
- ◆H type insulation
- ◆Circuit Breaker
- ◆Radiator
- ◆Shock Absorber

# Options

◊ Voltage 380V/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 16M33NG series, 16 cylinder, 4stroke, 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 ISO/IEC60034-1
- 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

The HGM6120CAN 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	16M33D1280NG10		
Rated Speed r/min	1500		
Prime Power kW	1280		
Cooling	Close Liquid cooled		
Governor	ECU		
Aspiration	Turbocharged, Inter-cooled		
No. of cylinders	16, V type		
Bore (mm) x Stroke (mm)	150x185		
Displacement (L)	52.3		
Starting system	24VDC Electrical		
Total coolant capacity engine/tank (L)	130/NA		
Radiator design temperature (°C)	40		
Lubrication system capacity (L)	171		
Load rate (%)	100%	75%	50%
Fuel consumption (kg/h)	230.2	178.1	126.2
Engine high water heat quantity(kJ/s)	560.0	469.2	369.9
Engine high water flow(m <sup>3</sup> /h)	92.9	92.8	92.8
Engine high water inlet/outlet Tem. (°C)	85.1/91.3	86.3/91.5	86.8/90.9
Engine high water inlet/outlet Pre. (kPa)	-5.8/109	-5.9/110	-6.1/110
Exhaust gas heat quantity(kJ/s)	832.5	681.2	492.5
Exhaust gas flow (kg/h)	6264	4848	3339
Exhaust Temperature (°C)	459	475	502
Exhaust back pressure (mbar)	50		
Exhaust Temperature after recycle	Heating water120°C/0.5Mpa	steam 190°C/1MPa	steam 220°C

# Alternator specifications

Make	Leroy somer
Alternator Frame	LSA50.2 L7
Exciter Type	Self-excitation
Enclosure	IP23
Voltage regulation	$\leq \pm 1\%$
Class of Insulation	H
Winding Pitch	2/3
Rotor	Single bearing

## Remarks

### Prime Rating(PRPs):

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°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 m<sup>3</sup>and low calorific value of 47.9 MJ/kg.

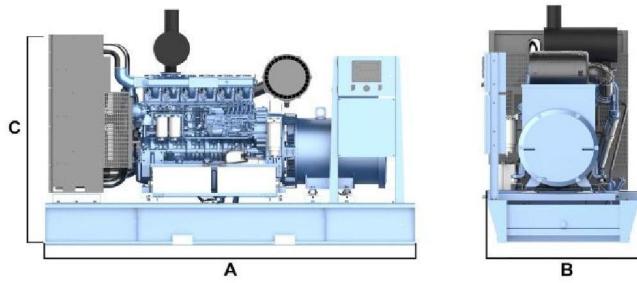
If the operating environment exceeds the above requirements, please contact with the factory.

## Standard Reference Conditions

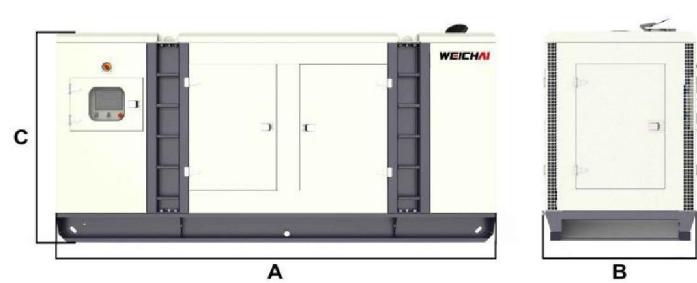
Genset Model	Length A(mm)	Width B(mm)	Height C(mm)	Wet Weight(kg)	Note
Open type	6090	2300	2800	12300	
Silent type	12192	2438	2896	19900	

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

**Open genset**



**Silence genset**



The picture is for reference only