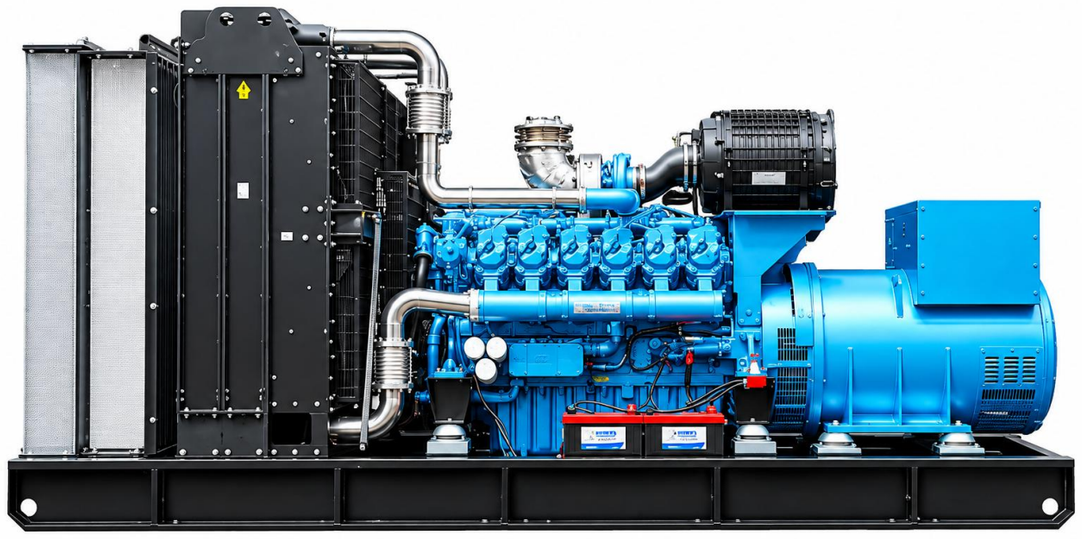
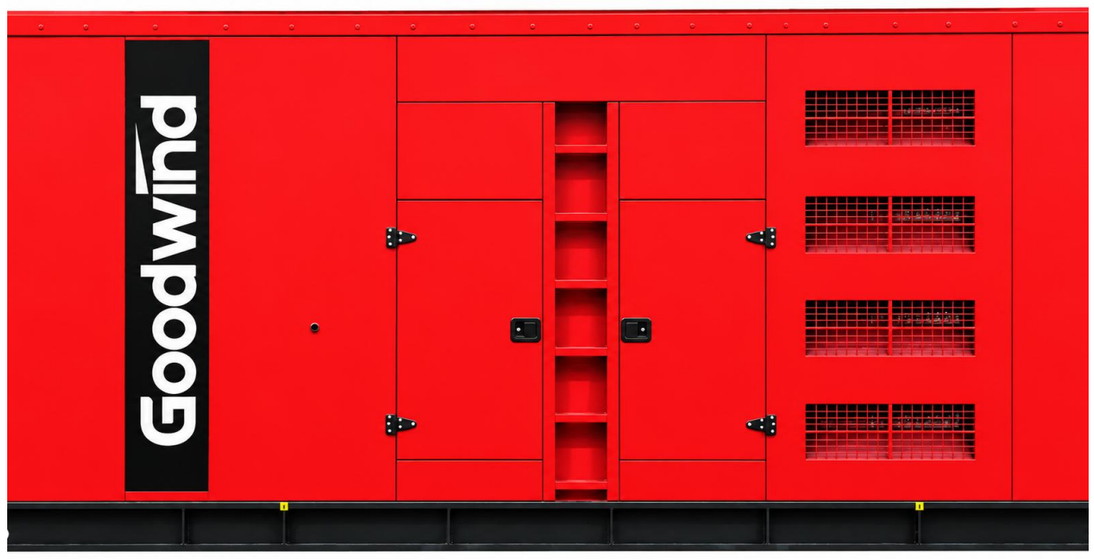
GW - W1650

WEICHAI-Diesel Generator Set





Standards : CE 2006/42/EC Machinery safety, ISO9001. ISO14001. ISO45001.GB/T 2820.5. ISO8528

Conditions : Reference environmental conditions according to the ISO 8528-1:2018 standard: atmospheric pressure 100kPa. Ambient temperature 25°C, relative humidity 30%.

PRP : According to ISO 8528-1.2018. prime power refers to the generator set under agreed operating conditions and maintained in accordance with the manufacturer's specifications. The generator set is used in variable load applications and has no running hour limit throughout the year. The average allowable output power for 24 hours of continuous operation shall not exceed 75% of the rated power.

ESP : According to ISO 8528-1:2018,emergency power refers to application when the grid power is outage,or application under test conditions, and the annual running time does not exceed 200 hours. The average allowable output power for 24 hours of continuous operation shall not exceed 75% of the standby rated power.

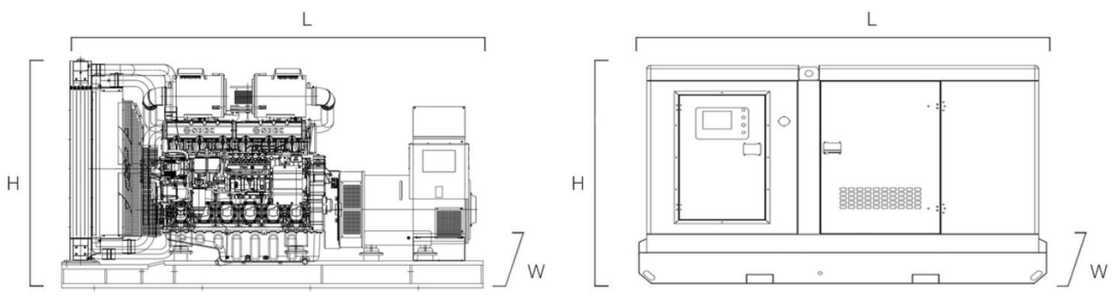
GENERATOR SPECIFICATION

ITEMS	PRP	ESP
Power	1500KVA	1650kVA
Power	1200kW	1320kW
Frequency/Phase/RPM	50Hz/3P/1500	
Standard voltage	400/230V	
Available voltage	380/220V ~ 415/240V	

Water-cooled | Three Phase | 50Hz | Diesel

GENERAL INSTALLATION

ITEMS	OPEN	SILENT
Dimension(L*W*H)(mm)	5200*2200*2700	7000*3000*3000
Weight(kg)	11800	17000
Fuel tank(L)	-	1600
Sound pressure level		
@75%load @1m db	85	
@75%load @7m db	72	



NOTE: Weights and dimensions based on standard products. According to 2000/14/CE, sound data is provided at 7m for 75% prime power.For Actual installation,please contact the manufacturer.

PERFORMANCE DATA		
Engine brand		WEICHAI
Generator brand		GOODWIND
Fuel		Diesel
Aspiration		Charge Ar Cooled
Cooling		Water-cooled
Governor		Electric
Displacement		39.2L
Application		Prime&Standby
Fuel consumption	110%ESP(212g/kW.h)	416L/H
	100%PRP(208g/kW.h)	334L/H
	75%PRP(202g/kW.h)	241L/H
	50%PRP(200g/kW.h)	164L/H

Goodwind

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WEICHAI-Diesel Generator Set

ENGINE SPECIFICATION

Performance Data	
Engine brand	WEICHAI
Engine model	12M33D1500E310
Engine power	1350/1500KW
Cylinder arrangement	12
Bore and stroke	150×185mm
Compression ratio	16:1
Rated speed	1500rpm
Engine type	4-stroke

Exhaust System	
Exhaust gas temperature	580°C
Exhaust gas flow	6331kg/h
Max back pressure	7.5kpa

Fuel system	
Type injection system	High Pressure Common Rail
Governor	Electric type

Cooling system	
Coolant Capacity-Engine Only	12.3litre
Max Coolant Friction Head External to Engine	28kPa
Minimum Pressure Cap	69kPa
Maximum Top Tank Temperature for Standby/Prime Power	104/98°C

Electrical System	
Starting Motor Power	2*8.5KW
Battery Capacity	200AH
Number Of Batteries	2
battery voltage	12V

Air Intake System	
Air Filter	Dry type
Intake air flow	6061kg/h
Max permissible restrictions	3kPa
Maximum allowable temperature for combustion air to enter	55°C

ALTERNATOR SPECIFICATION

Basic data	
Insulation&temperature rise	Class H/H
Excitation type	Self-excited
Winding leads	12
Winding connections(standard)	Star
Winding pitch	Two thirds
Number of phase	Three phase

Basic data	
Type	Brushless
No.of bearings	Single
Coupling system	Flexible disc
Maximum over speed	2250RPM
Coating type	Vacuum impregnation
IP rating	IP23

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WEICHAI-Diesel Generator Set

GENSET VERSION

Standard features
● Diesel engine, 50 degrees radiator, brushless alternator
● Intelligent controller
● Output circuit breaker
● Maintenance-free start battery, battery charge, battery switch
● Steel industrial silencer, exhaust bellows and elbows
● Steel chasis and anti-vibration shock absorbers
● Lifting and moving structure, expansion of oil and coolant discharge
● Moving parts protection, hot parts protection
● Special toolbox, delivery attached documentation

Optional	Features
ENGINE	● Water jacket preheater ● Oil preheater, oil level maintainer,oil manual pump ● Heavy air filtration ● Residential silencer ● Remote radiator heat exchanger
ALTERNATOR	● PMG/AREP excitation system ● Anti-condensation heater ● Winding/bearing RTD ● Double bearing structure ● IP44 protection class
CONTROL SYSTEM	● Synchronizing panel. remote control panel ● RS232/485, 4G &GPS wireless, ethernet communication card ● Additional digital/analog input/output ● Monitoring software mobile APP ● Ni-Cad batteries
GENERATING SET	● External fuel tank automatic fuel feeding ● ATS/output/combining/distribution cabinet ● Load test cabinet ● Mobile trailer ● Customized design

Ideal for...

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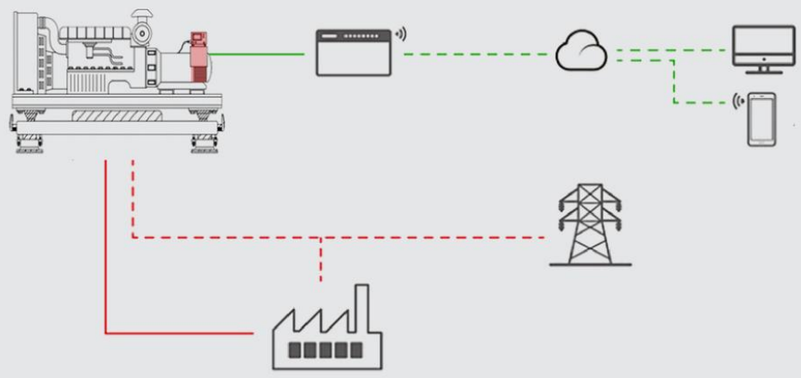

CONTROL SYSTEM

KEY FEATURES

Single generator set controller can be used in prime or standby scenarios

Manual and remote start, MRS application

Auto mains failure, AMF application

Genset power/frequency/ factor/voltage/current detection

Engine/alternator/generator protections/emergency stop

Event log/running hours history/ maintenance warning, LCD screen

User access management, software and tools are easy to use

Input or output configuration, USB communication port

Poland
Russia
Canada
Czech Republic
Ukraine
Hungary
Goodwind
Jiangsu, China
Iraq
Morocco
Israel
Iran
Pakistan
United States
Kuwait
United Arab Emirates
Mexico
Dominica
Saudi Arabia
India
Vietnam
Nigeria
Ethiopia
Philippines
Venezuela
Angola
Colombia
Malaysia
Zambia
Comoros
Papua New Guinea
Ecuador
Indonesia
Brazil
Zimbabwe
Peru
Australia
Chile
South Africa
New Zealand
Argentina

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