# W500G6-NG

Industrial Range Powered By WEICHAI




Standards : 2006/42/EC Machinery safety, 2006/95/EC Low voltage, EN 60204-1 : 2006+A1 : 2009, EN ISO 12100 : 2010, EN ISO 8528-13: 2016, ENISO 13849-1 : 2015, EN 60204-1 : 2018

PRP: Prime power is available for an unlimited number of annual operating hours in variable load applications , in accordance with ISO 8528.

COP: The continuous power rating is applicable for suppling utility power in a constant load applications in accordance with ISO 8528. overload is not allowed.

Conditions : According to the standard, the nominal power assigned by the genset is given for 25° C air inlet temperature, of a barometric pressure of 100 kPA (100 m A.S.L), and 30 % relative humidity.

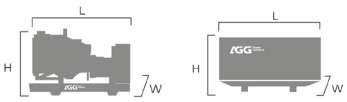
## GENERATOR SPECIFICATION

| ITEMS | COP |
|---|---|
| Power | 500kVA |
| Power | 400kW |
| Frequency / Phase / Power factor | 60Hz / 3P / PF0.8 |
| Standard voltage | 440/254V |
| Available voltage | 480/277V |

Water-cooled | Three Phase | 60Hz | Gas

## GENERAL INSTALLATION

| ITEMS | OPEN | SILENT |
|---|---|---|
| Dimension(L*W*H) (mm) | 4550*1780*2300 | 5812*2290*2525 |
| Weight(kg) | 5200 | 9000 |
| Fuel tank(L) | N/A | N/A |
| Sound pressure level<br>@75% load&1m dB(A)<br>@75% load&7m dB(A) | | <br>—<br>— |




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 |
| Engine model | | 6M33D480E311NG |
| Fuel | | Gas |
| Aspiration | | Turbocharged and Intercooled |
| Cooling | | Water-cooled |
| Governor | | ECU |
| Cyl arrangement | | 6 L |
| Application | | PRP/COP |
| Fuel consumption | 100% PRP(MJ/H)<br>100% COP(MJ/H)<br>75% COP(MJ/H)<br>50% PRP(MJ/H) | 4618<br>4025<br>3147<br>2277 |



# ENGINE SPECIFICATION

| BASIC DATA | |
|---|---|
| Engine brand | WEICHAI |
| Engine model | 6M33D480E311NG |
| Displacement | 19.6 L |
| No. of cyl / arrangement | 6 L |
| Bore x stroke | 150x185mm |
| Compression ratio | 11:1 |
| Engine speed | 1800rpm |
| Engine type | 4-stroke Gas |

| EXHAUST SYSTEM | |
|---|---|
| Exhaust stack gas temperature (max. ) | 433 °C |
| Exhaust gas flow rate (max. ) | 102 m³/min |
| Exhaust system backpressure (maximum allowable) | 75 mBar |

| FUEL SYSTEM | |
|---|---|
| Engine inlet pressure | 30~50 mBar |
| Acceptable Fuel | Pipeline Natural Gas |
| Minimum Fuel Methane Number | 80 MN |
| Max. Gas inlet temperature | 50°C |

| COOLING SYSTEM | |
|---|---|
| Radiator air flow | 1000 m³/min |
| Total oil capacity | 64 L |
| Total coolant capacity | 160 L |

| ELECTRICAL SYSTEM | |
|---|---|
| Starter motor rated voltage | DC24V |
| Start battery | 2x60Ah(720CCA) |
| Battery charging alternator | DC24V/55A |

| INLET AIR | |
|---|---|
| Air filter | Dry type |
| Max. combustion air Intake restriction | 50 mBar |
| Combustion air inlet flow rate | 29.4 m³/min |
| Max. allowable combustion air inlet temp | 50°C |

# ALTERNATOR SPECIFICATION

| BASIC DATA | | BASIC DATA | |
|---|---|---|---|
| Insulation & temperature rise | Class H/F | Type | Brushless |
| Excitation type | Self-excited | No. of bearings | Single bearing |
| Winding leads | 12 | Coupling system | Flexible disc |
| Winding connections (standard) | Star | Maximum over speed | 2250 RPM |
| Winding pitch | Two thirds | Coating type | Vacuum impregnation |
| Number of phase | Three phase | IP rating | IP23 |

# CONTROL SYSTEM

Key features

Single generator set controllercan be used in prime or standby scenarios

Manual and remote start, MRS application

Auto mains failure, AMF application

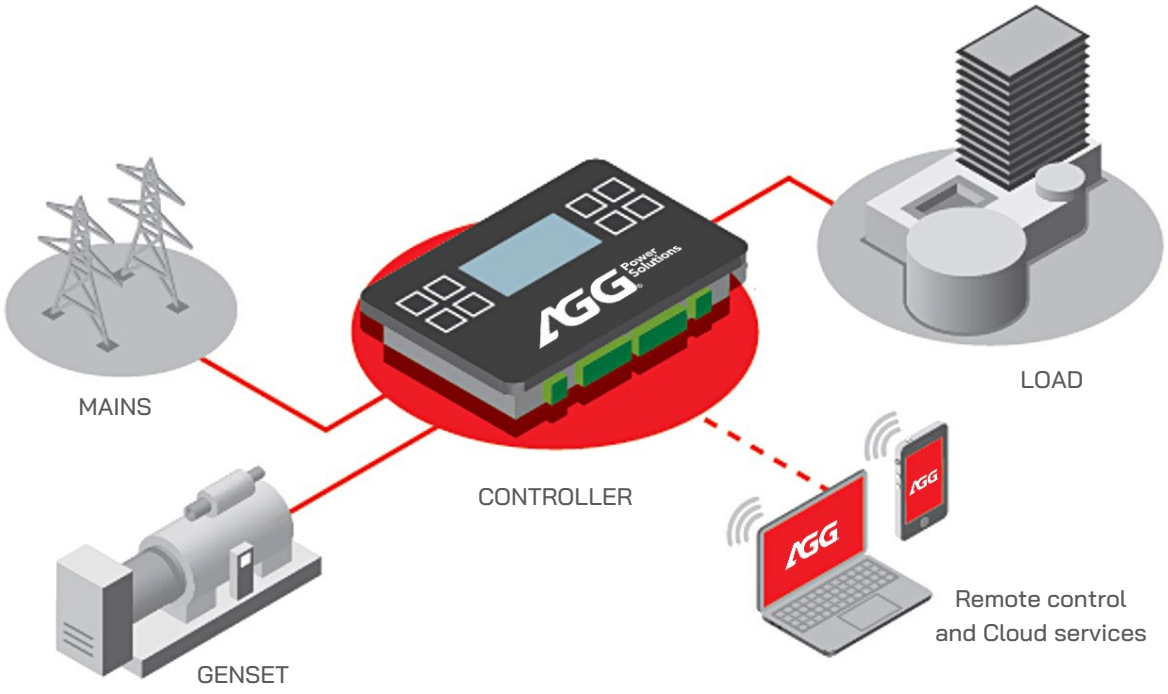
Genset power / frequency / factor / voltage / current detection

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



# GENSET VERSION

## STANDARD FEATURES

- Gas engine，50 degrees radiator, brushless alternator
- Intelligent controller
- Output circuit breaker (up to1250A)
- 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<br>◆ Oil Preheater, oil level maintainer, oil manual pump<br>◆ Heavy air filtration<br>◆ Residential silencer<br>◆ Remote radiator, heat exchanger |
| ALTERNATOR | ◆ PMG/AREP excitation system<br>◆ Anti-condensation heater<br>◆ Winding/bearing RTD<br>◆ Double bearing structure<br>◆ IP44 protection class |
| CONTROL SYSTEM | ◆ Synchronizing panel, remote control panel<br>◆ RS232/485, 4G & GPS wireless, ethernet communication card<br>◆ Additional digital/analog input/output<br>◆ Monitoring software, mobile APP<br>◆ Ni-Cad batteries |
| GENERATING SET | ◆ Waste heat recovery<br>◆ ATS / output / combining / distribution cabinet<br>◆ Load test cabinet<br>◆ Mobile trailer<br>◆ Customized design |

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