# CU513E5

Industrial Range Powered By Cummins






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 8528-1.

ESP : The standby power rating is applicable for suppling emergency power in variable load applications in accordance with ISO 8528-1.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.

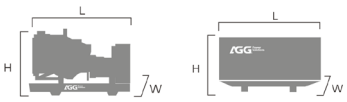
## GENERATOR SPECIFICATION

| ITEMS | PRP | EPS |
|---|---|---|
| Power | 500kVA | 513kVA |
| Power | 400kW | 410kW |
| Frequency / Phase / Power factor | 50Hz / 3P / PF0.8 | |
| 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) | 3300*1360*2145 | 4376*1554*2557 |
| Weight(kg) | 3400 | 4005 |
| Fuel tank(L) | 800 | 1050 |
| Sound pressure level<br>@75% load&1m dB(A)<br>@75% load&7m dB(A) | | <br>TBA<br>TBA |




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 | | CUMMINS |
| Engine model | | QSZ13-G3 |
| Fuel | | Diesel |
| Aspiration | | Turbocharged and Charge Air Cooled |
| Cooling | | Water-cooled |
| Governor | | ECM |
| Cyl arrangement | | 6L |
| Application | | Prime & Standby |
| Fuel consumption | 100% ESP(L/H)<br>100% PRP(L/H)<br>75% PRP(L/H)<br>50% PRP(L/H) | 107.1<br>93.2<br>69.9<br>49 |



# ENGINE SPECIFICATION

| BASIC DATA | |
|---|---|
| Engine brand | CUMMINS |
| Engine model | QSZ13-G3 |
| Displacement | 13.0L |
| No. of cyl / arrangement | 6L |
| Bore x stroke | 130x163mm |
| Compression ratio | 17.0 : 1 |
| Engine speed | 1500rpm |
| Engine type | 4-stroke diesel |

| EXHAUST SYSTEM | |
|---|---|
| Exhaust stack gas temperature (max. ) | 523 °C |
| Exhaust gas flow rate (max. ) | 36.4 kg/min |
| Exhaust system backpressure (maximum allowable) | 13 kPa |

| FUEL SYSTEM | |
|---|---|
| Maximum restriction at lift pump | 27 kPa |
| Max. fuel flow | 244 L/H |

| COOLING SYSTEM | |
|---|---|
| Radiator air flow | 8.7 m³/s |
| Total oil capacity | 75.33L |
| Total coolant capacity | 73.1L |

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

| INLET AIR | |
|---|---|
| Air filter | Dry type |
| Max. combustion air Intake restriction | 6.2 kPa |
| Combustion air inlet flow rate | 29.6 m³/min |
| Max. allowable combustion air inlet temp | 50°C |

# ALTERNATOR SPECIFICATION

| BASIC DATA | | BASIC DATA | |
|---|---|---|---|
| Insulation & temperature rise | Class H/H | Type | Brushless |
| Excitation type | Self-excited | No. of bearings | Single bearing |
| Winding leads | 6 | 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 control-lercan be used in prime or standby scenarios

Manual and remote start, MRS application

Auto mains failure, AMF application

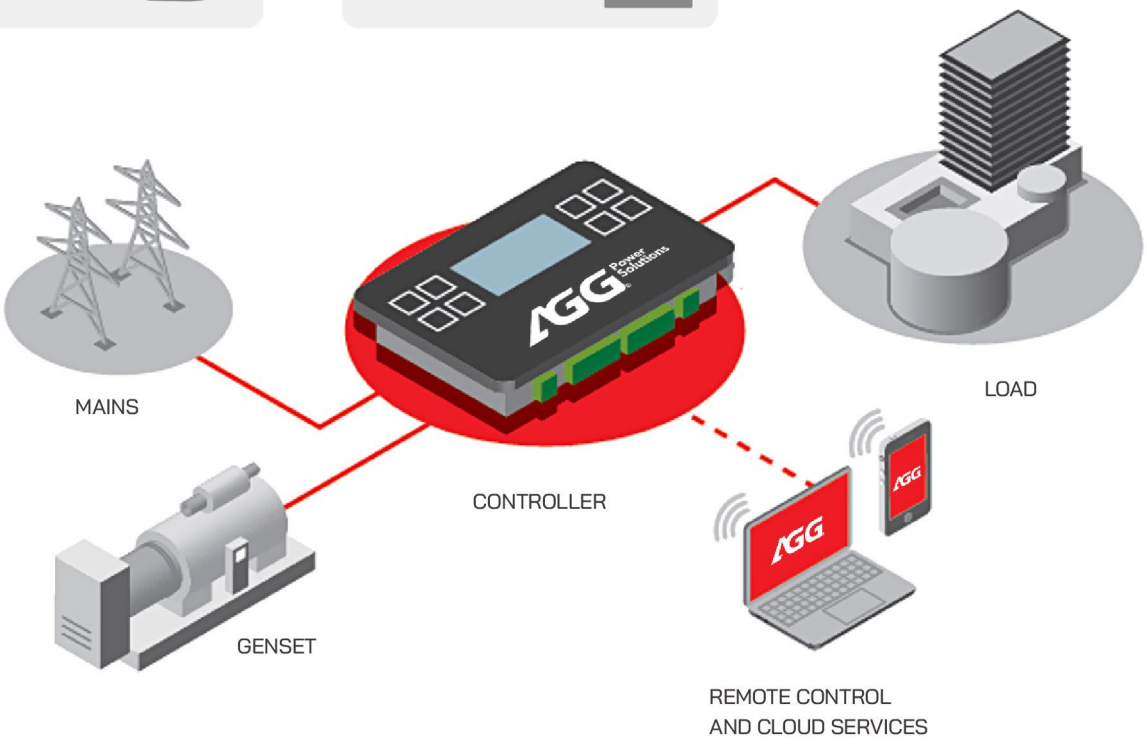
Genset power/frequency/factor /voltage/current detection

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

- Diesel 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** | ◆ External fuel tank, automatic fuel feeding<br>◆ ATS/output /combining/distribution cabinet<br>◆ Load test cabinet<br>◆ Mobile trailer<br>◆ Customized design |

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