









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

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 $25^{\circ}\,$ 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 | 1500kVA | 1650kVA |
| Power | 1200kW | 1320kW |
| Frequency / Phase / Power factor | 50Hz / 3F | P / PF0.8 |
| Standard voltage | 400/2 | 230V |
| Available voltage | 380/220V | 415/240V |



Water-cooled



Three Phase





GENERAL INSTALLATION

| ITEMS | OPEN | SILENT |
|--|----------------|-----------------|
| Dimension(L*W*H) (mm) | 6770*2555*2550 | 12192*2438*2896 |
| Weight(kg) | 13000 | 19500 |
| Fueltank(L) | N/A | 2000 |
| Sound pressure level @75% load&1m dB(A) @75% load&7m dB(A) | | TBA 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.

| PERFORMANC | E DATA | |
|------------------|--|----------------------------------|
| Engine brand | | MTU |
| Engine model | | 12V4000G14F |
| Fuel | | Diesel |
| Aspiration | | Turbocharged and Intercooling |
| Cooling | | Water-cooled |
| Governor | | ECU |
| Cyl arrangement | | 12V |
| Application | | Prime & Standby |
| Fuel consumption | 100% ESP(L/H) 100% PRP(L/H) 75% PRP(L/H) 50% PRP(L/H) | 345.3 313.9 228.9 155.5 |



TBA m³/min

260 L 600 L

DC24V

4x120Ah(850CCA)

DC24V/TBA

ENGINE SPECIFICATION

| BASIC DATA | |
|--------------------------|-----------------|
| Engine brand | MTU |
| Engine model | 12V4000G14F |
| Displacement | 57.2L |
| No. of cyl / arrangement | 12V |
| Bore x stroke | 170x210mm |
| Compression ratio | 16.4 : 1 |
| Engine speed | 1500rpm |
| Engine type | 4-stroke diesel |
| | |
| EXHAUST SYSTEM | |

| Total coolant capacity |
|-----------------------------|
| |
| ELECTRICAL SYSTEM |
| Starter motor rated voltage |
| Start battery |
| Battery charging alternator |
| |
| INLET AIR |
| Air filter |
| |

COOLING SYSTEM

Radiator air flow

Total oil capacity

| Exhaust gas flow rate (max.) | $5.6 \text{m}^3/\text{s}$ |
|---|----------------------------|
| Exhaust system backpressure (maximum allowable) | 85 mbar |
| | |
| FUEL SYSTEM | |
| Maximum restriction at lift pump | 7.5 Bar |
| Max. fuel flow | 16 L/min |
| | |

Exhaust stack gas temperature (max.)

| INLET AIR | |
|--|----------|
| Air filter | Dry type |
| Max. combustion air Intake restriction | 50 mbar |
| Combustion air inlet flow rate | 2.2 m³/s |
| Max. allowable combustion air inlet temp | 50°C |

ALTERNATOR SPECIFICATION

| BASIC DATA | | BASIC DATA | |
|--------------------------------|--------------|--------------------|---------------------|
| Insulation & temperature rise | Class H/H | Туре | 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 |

490 °C



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

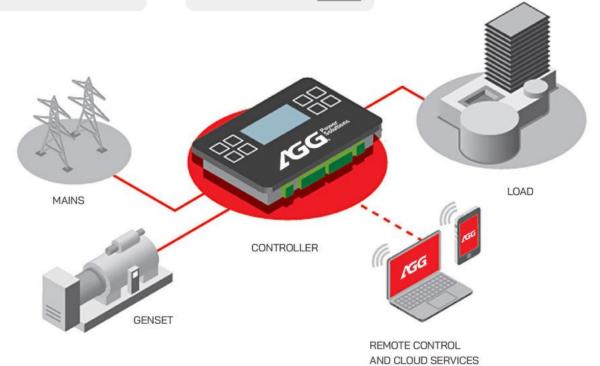


User access management, software and tools are easy to use



Input or output configuration, USB communication port







GENSET VERSION

STANDARD FEATURES

- · 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

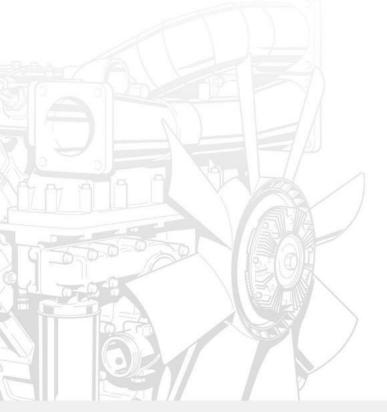












OPTIONAL FEATURES

- · Water jacket preheater
- · Oil Preheater, oil level maintainer, oil manual pump
- Heavy air filtration
- · Residential silencer
- · Remote radiator, heat exchanger
- PMG/AREP excitation system
- Anti-condensation heater
- ALTERNATOR Winding/bearing RTD
 - · Double bearing structure
 - IP44 protection class

CONTROL SYSTEM

ENGINE

- · 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

- · External fuel tank, automatic fuel feeding
- · ATS/output /combining/distribution cabinet
- Load test cabinet
- Mobile trailer
- · Customized design

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Three Phase





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| Application | | Prime & Standby |
| Fuel consumption | 100% ESP(L/H) 100% PRP(L/H) 75% PRP(L/H) 50% PRP(L/H) | 299.3 272.1 209.5 144.0 |



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| Compression ratio | 16.4 : 1 | |
| Engine speed | 1500rpm | |
| Engine type | 4-stroke diesel | |
| | | |
| EXHAUST SYSTEM | | |
| Exhaust stack gas temperature (max.) | 460 °C | |
| Exhaust gas flow rate (max.) | 4.5 m³/s | |
| Exhaust system backpressure (maximum allowable) | 85 mbar | |
| | | |
| FUEL SYSTEM | | |
| Maximum restriction at lift pump | 7.5 Bar | |
| Max. fuel flow | 16 L/min | |
| | | |

| COOLING SYSTEM | |
|------------------------|------------|
| Radiator air flow | TBA m³/min |
| Total oil capacity | 260 L |
| Total coolant capacity | 600 L |

| DC24V | |
|-----------------|--|
| 4x120Ah(850CCA) | |
| DC24V/TBA | |
| | |

| INLET AIR | |
|--|----------|
| Air filter | Dry type |
| Max. combustion air Intake restriction | 50 mbar |
| Combustion air inlet flow rate | 1.8 m³/s |
| Max. allowable combustion air inlet temp | 50°C |

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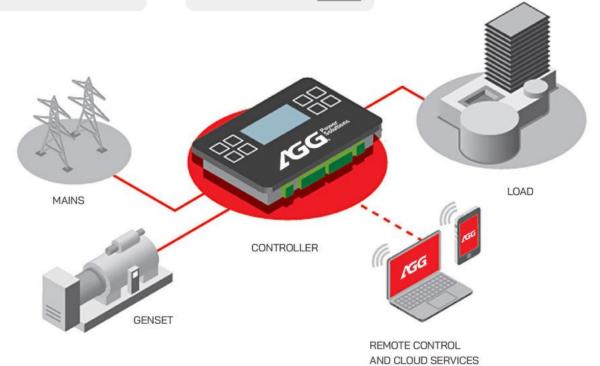


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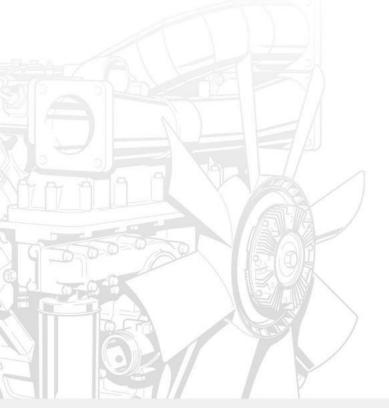












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