









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                            | 1000kVA             | 1100kVA |
| Power                            | 800kW               | 880kW   |
| Frequency / Phase / Power factor | 50Hz / 3F           | / 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)  | 4435*1820*2265 | 6058*2438*2591 |
| Weight(kg)   | 6550           | 12000          |
| Fueltank(L)  | N/A            | 1000           |
| Sound pressure level<br>@75% load&1m dB(A)<br>@75% load&7m dB(A) |                | 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.

| PERFORMANC       | E DATA   |                                       |
|------------------|--|---------------------------------------|
| Engine brand     |  | MTU                                   |
| Engine model     |  | 16V2000G26F                           |
| Fuel             |  | Diesel                                |
| Aspiration       |  | Turbocharged and<br>Charge Air Cooled |
| Cooling          |  | Water-cooled                          |
| Governor         |  | ECU                                   |
| Cyl arrangement  |  | 16V                                   |
| Application      |  | Prime & Standby                       |
| Fuel consumption | 100% ESP(L/H)<br>100% PRP(L/H)<br>75% PRP(L/H)<br>50% PRP(L/H) | 218<br>197<br>150<br>104              |



## **ENGINE SPECIFICATION**

| BASIC DATA               |                 |
|--------------------------|-----------------|
| Engine brand             | MTU             |
| Engine model             | 16V2000G26F     |
| Displacement             | 35.7L           |
| No. of cyl / arrangement | 16V             |
| Bore x stroke            | 135x156mm       |
| Compression ratio        | 17.5 : 1        |
| Engine speed             | 1500rpm         |
| Engine type              | 4-stroke diesel |
|                          |                 |

| EXHAUST SYSTEM                                  |           |
|---|-----------|
| Exhaust stack gas temperature (max.)            | 540 °C    |
| Exhaust gas flow rate (max. )                   | 3.06 m³/s |
| Exhaust system backpressure (maximum allowable) | 85 mbar   |
|   |           |
| 3 ' ' '   | 85 mbar   |

| FUEL SYSTEM                      |            |
|----------------------------------|------------|
| Maximum restriction at lift pump | 1.0 Bar    |
| Max. fuel flow                   | 10.0 L/min |

| COOLING SYSTEM         |            |
|------------------------|------------|
| Radiator air flow      | TBA m³/min |
| Total oil capacity     | 114 L      |
| Total coolant capacity | 200 L      |
|                        |            |

| DC24V           |
|-----------------|
| 2x120Ah(850CCA) |
| DC24V/TBA       |
|                 |

| INLET AIR                                |           |
|--|-----------|
| Air filter                               | Dry type  |
| Max. combustion air Intake restriction   | 50 mbar   |
| Combustion air inlet flow rate           | 1.13 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                |



## 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

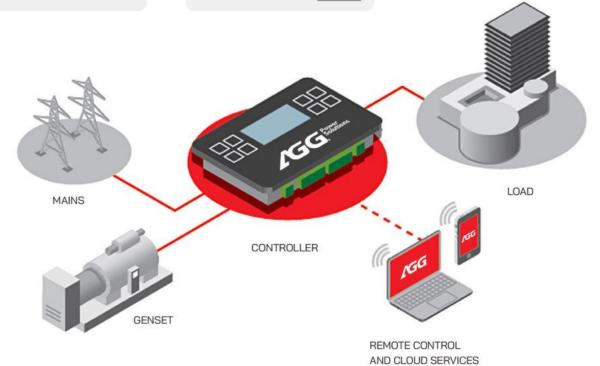


User access management, software and tools are easy to use



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

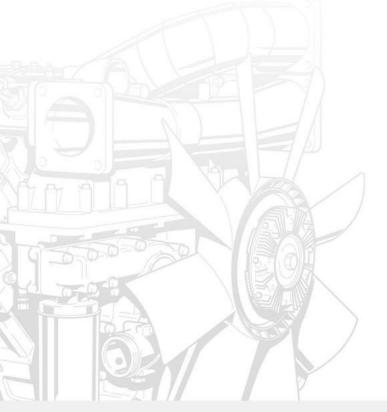












### OPTIONAL FEATURES

- · 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

Tel: +86 591 8639 6829 Fax: +86 591 8639 6929 Email: info@aggpowersolutions.com Web: www.aggpower.co.uk











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Three Phase







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|------------------|--|---------------------------------------|--|--|--|
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| Engine model     |  | 16V2000G65                            |  |  |  |
| Fuel             |  | Diesel                                |  |  |  |
| Aspiration       |  | Turbocharged and<br>Charge Air Cooled |  |  |  |
| Cooling          |  | Water-cooled                          |  |  |  |
| Governor         |  | ECU                                   |  |  |  |
| Cyl arrangement  |  | 16V                                   |  |  |  |
| Application      |  | Prime & Standby                       |  |  |  |
| Fuel consumption | 100% ESP(L/H)<br>100% PRP(L/H)<br>75% PRP(L/H)<br>50% PRP(L/H) | 210<br>191<br>140<br>118              |  |  |  |



TBA m³/min

DC24V

2x120Ah(850CCA)

DC24V/TBA

50°C

## **ENGINE SPECIFICATION**

| MTU             |
|-----------------|
| 16V2000G65      |
| 31.84L          |
| 16V             |
| 130x150mm       |
| 16 : 1          |
| 1500rpm         |
| 4-stroke diesel |
|                 |
|                 |
|                 |

| Total oil capacity     | 102 L |
|------------------------|-------|
| Total coolant capacity | 250 L |
|                        |       |
|                        |       |
|                        |       |
| ELECTRICAL SYSTEM      |       |

**COOLING SYSTEM** 

Starter motor rated voltage

Battery charging alternator

Start battery

Radiator air flow

| EXHAUST SYSTEM                                  |          |
|---|----------|
| Exhaust stack gas temperature (max.)            | 535 °C   |
| Exhaust gas flow rate (max. )                   | 3.3 m³/s |
| Exhaust system backpressure (maximum allowable) | 85 mbar  |
|   |          |

| INLET AIR                              |          |
|--|----------|
| Air filter                             | Dry type |
| Max. combustion air Intake restriction | 50 mbar  |
| Combustion air inlet flow rate         | 1.2 m³/s |
|  |          |

Max. allowable combustion air inlet temp

| FUEL SYSTEM                      |            |
|----------------------------------|------------|
| Maximum restriction at lift pump | 1.0 Bar    |
| Max. fuel flow                   | 10.0 L/min |

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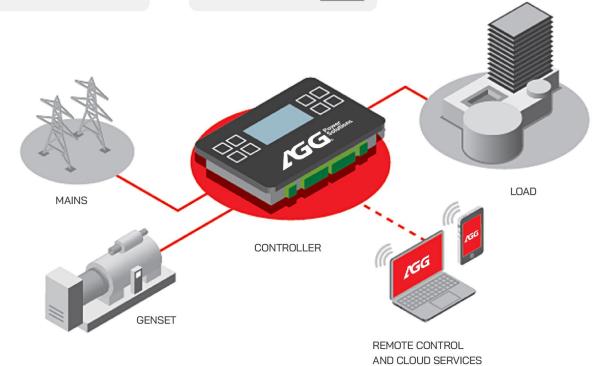


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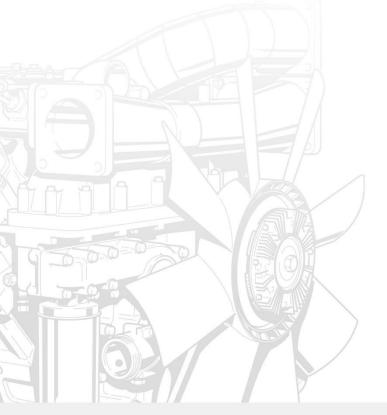












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