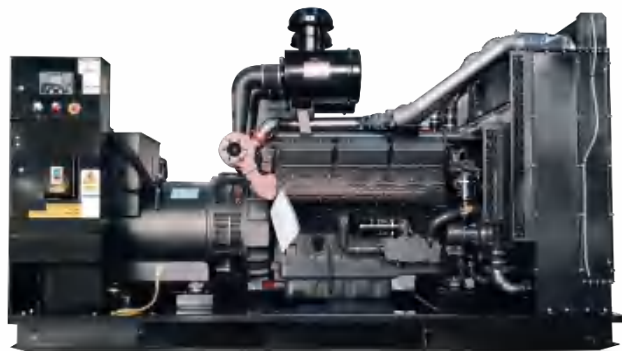


# AS770E5

Industrial Range Powered By AGG

**AGG** Power Solutions



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, EN ISO 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 supplying 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                            | 700kVA              | 770kVA |
| Power                            | 560kW               | 616kW  |
| Frequency / Phase / Power factor | 50Hz / 3P / PF0.8   |        |
| Standard voltage                 | 400/230V            |        |
| Available voltage                | 380/220V · 415/240V |        |



Water-cooled



Three Phase



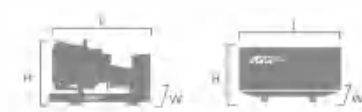
50Hz



Diesel

## GENERAL INSTALLATION

| ITEMS                                                            | OPEN           | SILENT         |
|------------------------------------------------------------------|----------------|----------------|
| Dimension(L*W*H)(mm)                                             | 4000*1610*2172 | 5612*2190*2520 |
| Weight(kg)                                                       | 5350           | 11000          |
| Fuel tank(L)                                                     | N/A            | 1300           |
| 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.

## PERFORMANCE DATA

|                  |                                         |       |
|------------------|-----------------------------------------|-------|
| Engine brand     | AGG                                     |       |
| Engine model     | AS25000-G38                             |       |
| Fuel             | Diesel                                  |       |
| Aspiration       | Turbo charged<br>Air-to-air intercooled |       |
| Cooling          | Water-cooled                            |       |
| Governor         | ECU                                     |       |
| Cyl arrangement  | 6L                                      |       |
| Application      | Prime & Standby                         |       |
| Fuel consumption | 100% ESP(L/H)                           | 160   |
|                  | 100% PRP(L/H)                           | 143.1 |
|                  | 75% PRP(L/H)                            | 108.9 |
|                  | 50% PRP(L/H)                            | 76.3  |

## ENGINE SPECIFICATION

| BASIC DATA               |                 |
|--------------------------|-----------------|
| Engine brand             | AGG             |
| Engine model             | AS25000-G38     |
| Displacement             | 25.2L           |
| No. of cyl / arrangement | 6L              |
| Bore x stroke            | 170x185mm       |
| Compression ratio        | 14.5:1          |
| Engine speed             | 1500rpm         |
| Engine type              | 4-stroke diesel |

| EXHAUST SYSTEM                                  |              |
|-------------------------------------------------|--------------|
| Exhaust stack gas temperature (max. )           | 600°C        |
| Exhaust gas flow rate (max. )                   | 117.4 m³/min |
| Exhaust system backpressure (maximum allowable) | 10 kPa       |

| FUEL SYSTEM                      |         |
|----------------------------------|---------|
| Maximum restriction at lift pump | 50 kPa  |
| Max. fuel flow                   | 600 L/H |

| COOLING SYSTEM         |            |
|------------------------|------------|
| Radiator air flow      | 834 m³/min |
| Total oil capacity     | 75 L       |
| Total coolant capacity | 136 L      |

| ELECTRICAL SYSTEM           |                |
|-----------------------------|----------------|
| Starter motor rated voltage | DC24V          |
| Start battery               | 2x60Ah(720CCA) |
| Battery charging alternator | DC28V/55A      |

| INLET AIR                                |             |
|------------------------------------------|-------------|
| Air filter                               | Dry type    |
| Max. combustion air Intake restriction   | 6kPa        |
| Combustion air inlet flow rate           | 47.6 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                  | 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 control-  
ler can be used in prime or  
standby scenarios



Manual and remote start,  
MRS application



Auto mains failure, AMF  
application



Genset power/frequency/fac-  
tor /voltage/current detection



Engine / alternator / genera-  
tor protections, emergency  
stop



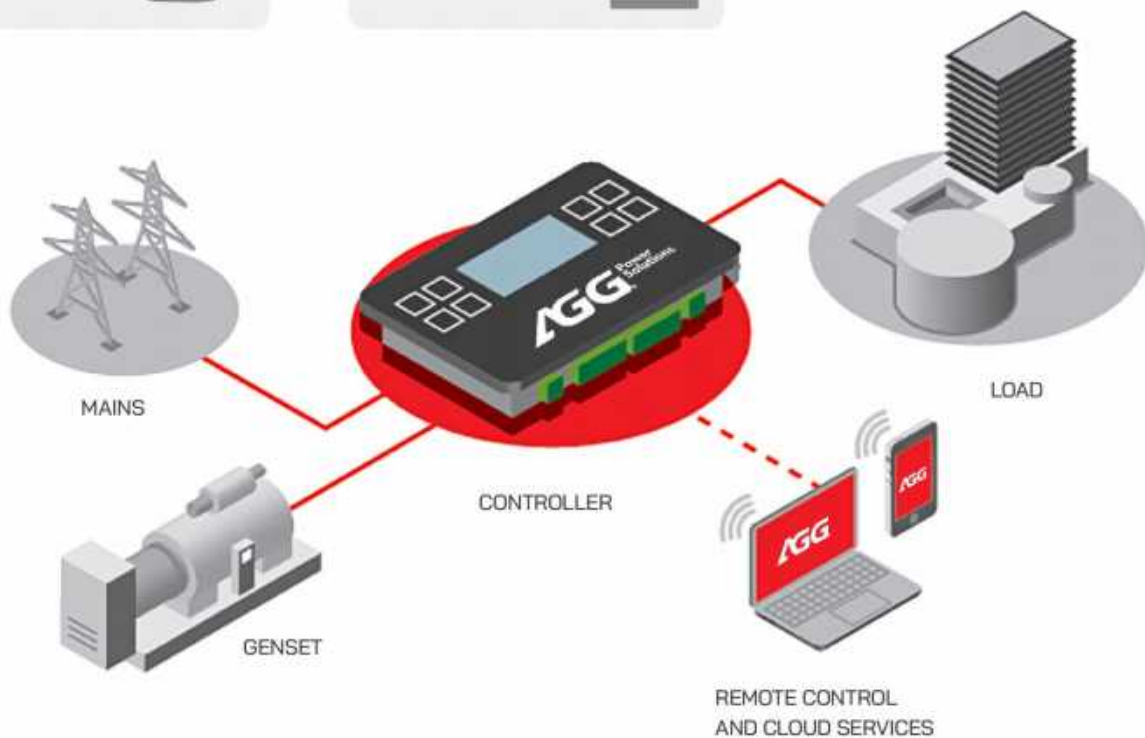
Event log / running hours  
history / maintenance  
warning, LCD screen



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 to 1250A)
- 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