

# P200D5

Industrial Range Powered By PERKINS

**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                            | 180kVA              | 200kVA |
| Power                            | 144kW               | 160kW  |
| Frequency / Phase / Power factor | 50Hz / 3P / PF0.8   |        |
| Standard voltage                 | 400/230V            |        |
| Available voltage                | 380/220V · 415/240V |        |



Water-cooled



Three Phase



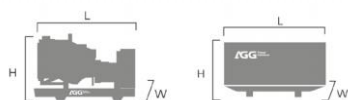
50Hz



Diesel

## GENERAL INSTALLATION

| ITEMS                                                            | OPEN          | SILENT         |
|------------------------------------------------------------------|---------------|----------------|
| Dimension(L*W*H) (mm)                                            | 2600*765*1490 | 3317*1155*1660 |
| Weight(kg)                                                       | 1615          | 2250           |
| Fuel tank(L)                                                     | 220           | 250            |
| 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     | PERKINS                            |      |
| Engine model     | 1106A-70TAG3                       |      |
| Fuel             | Diesel                             |      |
| Aspiration       | Turbocharged and Air charge cooled |      |
| Cooling          | Water-cooled                       |      |
| Governor         | Mechanical                         |      |
| Cyl arrangement  | 6 L                                |      |
| Application      | Prime & Standby                    |      |
| Fuel consumption | 100% ESP(L/H)                      | 45.1 |
|                  | 100% PRP(L/H)                      | 41.4 |
|                  | 75% PRP(L/H)                       | 32.0 |
|                  | 50% PRP(L/H)                       | 20.2 |

## ENGINE SPECIFICATION

| BASIC DATA               |                 |
|--------------------------|-----------------|
| Engine brand             | PERKINS         |
| Engine model             | 1106A-70TAG3    |
| Displacement             | 7.01 L          |
| No. of cyl / arrangement | 6 L             |
| Bore x stroke            | 105 x 135mm     |
| Compression ratio        | 16 : 1          |
| Engine speed             | 1500rpm         |
| Engine type              | 4-stroke diesel |

| EXHAUST SYSTEM                                  |             |
|-------------------------------------------------|-------------|
| Exhaust stack gas temperature (max. )           | 491 °C      |
| Exhaust gas flow rate (max. )                   | 33.8 m³/min |
| Exhaust system backpressure (maximum allowable) | 6.0 kPa     |

| FUEL SYSTEM                      |         |
|----------------------------------|---------|
| Maximum restriction at lift pump | 50 kPa  |
| Max. fuel flow                   | 180 L/H |

| COOLING SYSTEM         |            |
|------------------------|------------|
| Radiator air flow      | TBA m³/min |
| Total oil capacity     | 18 L       |
| Total coolant capacity | 20.5 L     |

| ELECTRICAL SYSTEM           |               |
|-----------------------------|---------------|
| Starter motor rated voltage | DC12V         |
| Start battery               | 120Ah(850CCA) |
| Battery charging alternator | DC12V/65A     |

| INLET AIR                                |              |
|------------------------------------------|--------------|
| Air filter                               | Dry type     |
| Max. combustion air Intake restriction   | 5 kPa        |
| Combustion air inlet flow rate           | 13.87 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



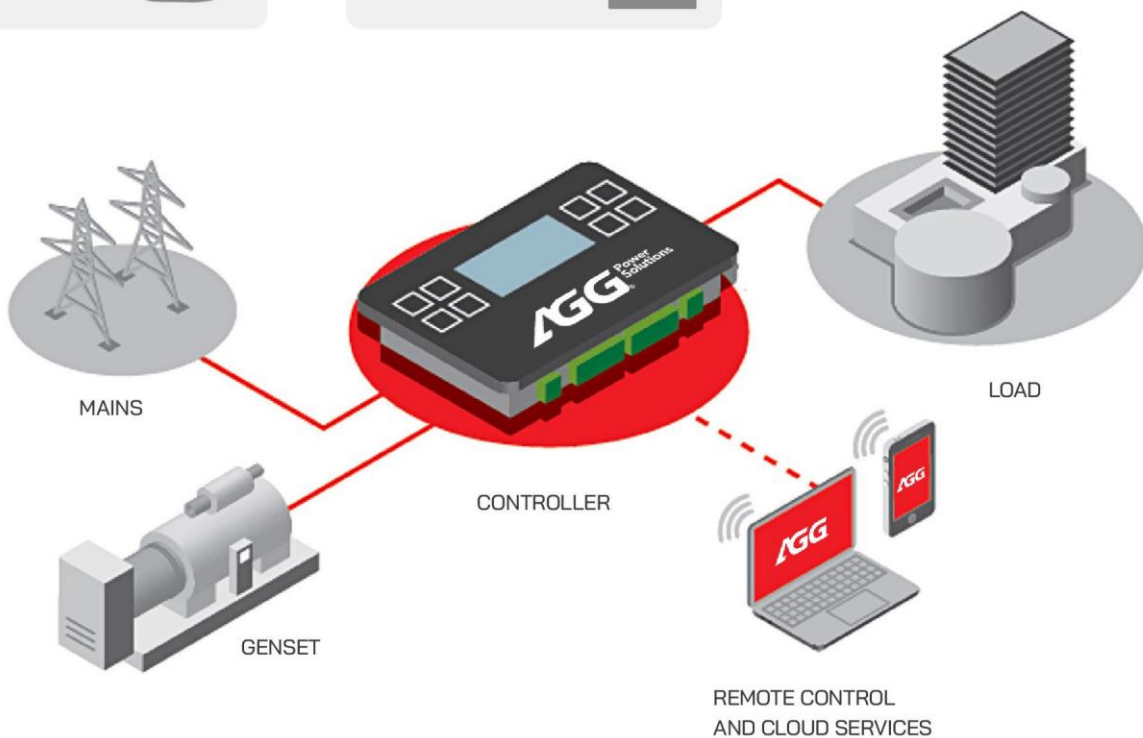
Event log / running hours  
history / maintenance  
warning, LCD screen



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 chassis 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

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