

P59D6

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, 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 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 | 53kVA | 59kVA |
| Power | 42kW | 47kW |
| Frequency / Phase / Power factor | 60Hz / 3P / PF0.8 | |
| Standard voltage | 220/127V | |
| Available voltage | 220/127V | |



GENERAL INSTALLATION

| ITEMS | OPEN | SILENT |
|----------------------|---------------|---------------|
| Dimension(L*W*H)(mm) | 1860*750*1296 | 2298*954*1250 |
| Weight(kg) | 805 | 1060 |
| Fuel tank(L) | 125 | 90 |
| Sound pressure level | | |
| @75% load&1m dB(A) | | TBA |
| @75% load&7m dB(A) | | 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 | 1103A-33TG1 | |
| Fuel | Diesel | |
| Aspiration | Turbocharged | |
| Cooling | Water-cooled | |
| Governor | Mechanical | |
| Cyl arrangement | 3 L | |
| Application | Prime & Standby | |
| Fuel consumption | 100% ESP(L/H) | 8.1 |
| | 100% PRP(L/H) | 7.2 |
| | 75% PRP(L/H) | 5.61 |
| | 50% PRP(L/H) | 4.06 |

ENGINE SPECIFICATION

BASIC DATA

| | |
|--------------------------|-----------------|
| Engine brand | PERKINS |
| Engine model | 1103A-33TG1 |
| Displacement | 3.3 L |
| No. of cyl / arrangement | 3 L |
| Bore x stroke | 105 x 127mm |
| Compression ratio | 17.25 : 1 |
| Engine speed | 1800rpm |
| Engine type | 4-stroke diesel |

EXHAUST SYSTEM

| | |
|---|-------------------------|
| Exhaust stack gas temperature (max.) | 551 °C |
| Exhaust gas flow rate (max.) | 9.5 m ³ /min |
| Exhaust system backpressure (maximum allowable) | 15 kPa |

FUEL SYSTEM

| | |
|----------------------------------|---------|
| Maximum restriction at lift pump | 75 kPa |
| Max. fuel flow | 150 L/H |

COOLING SYSTEM

| | |
|------------------------|------------------------|
| Radiator air flow | 70 m ³ /min |
| Total oil capacity | 8.3 L |
| Total coolant capacity | 10.2 L |

ELECTRICAL SYSTEM

| | |
|-----------------------------|--------------|
| Starter motor rated voltage | DC12V |
| Start battery | 60Ah(580CCA) |
| Battery charging alternator | DC12V/65A |

INLET AIR

| | |
|--|-------------------------|
| Air filter | Dry type |
| Max. combustion air Intake restriction | 8.0 kPa |
| Combustion air inlet flow rate | 3.9 m ³ /min |
| Max. allowable combustion air inlet temp | 50°C |

ALTERNATOR SPECIFICATION

BASIC DATA

| | |
|--------------------------------|--------------|
| Insulation & temperature rise | Class H/H |
| Excitation type | Self-excited |
| Winding leads | 12 |
| Winding connections (standard) | Star |
| Winding pitch | Two thirds |
| Number of phase | Three phase |

BASIC DATA

| | |
|--------------------|---------------------|
| Type | Brushless |
| No. of bearings | Single bearing |
| Coupling system | Flexible disc |
| Maximum over speed | 2250 RPM |
| Coating type | Vacuum impregnation |
| IP rating | IP23 |

CONTROL SYSTEM

Key features

| | | |
|--|---|---|
| <p>Single generator set control- can be used in prime or standby scenarios</p>  | <p>Manual and remote start, MRS application</p>  | <p>Auto mains failure, AMF application</p>  |
| <p>Genset power/frequency/factor /voltage/current detection</p>  | <p>Engine / alternator / generator protections, emergency stop</p>  | <p>Event log / running hours history / maintenance warning, LCD screen</p>  |
| <p>User access management, software and tools are easy to use</p>  | <p>Input or output configuration, USB communication port</p>  | |



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

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