

Your Professional Power Assistant

Model:C125D5

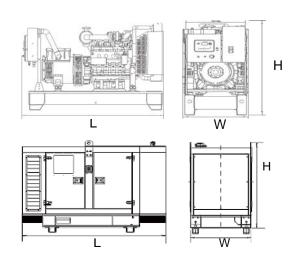
Powered by DCEC

| Output Ratir | ng | | | |
|--------------|-----------|----------|------------|---------------------------|
| MODEL | | Powe | er rating | Voltage available |
| | | PRIME(1) | STANDBY(2) | |
| C125D5 | 400V/50HZ | 90KW | 100KW | 380/220V 400/230V 415/27V |
| | PF:0.8 | 113KVA | 125KVA | |

| General In | | |
|----------------|------------------|--------------|
| | Model | C125D5 |
| | Engine | 6BTA5.9G2 |
| Speed | l control type | Electronical |
| | Phase | 3 |
| Control System | | Digital |
| Syst | em voltage | 24V |
| Fr | equency | 50HZ |
| Engine | Speed(RPM) | 1500 |
| | Standby power(2) | 30 |
| Fuel | Prime Power(1) | 27 |
| Consumption | 75% prime power | 20 |
| (L/hr) | 50% prime power | 14 |



| D | Dimension and Weight | | | | |
|---|----------------------|------|--------|--------|--|
| | Dimens | ion | Open | Silent | |
| | Length | (L) | 2240mm | 3280mm | |
| | Width | (W) | 980mm | 1080mm | |
| | Height | (H) | 1515mm | 1765mm | |
| | Net Wei | ight | 1250KG | 1780KG | |



AGG POWER gensets are compliant with EC mark which include the following directives:

- * 2006/42/EC Machinery safety.
- * 2006/95/EC Low voltage
- * EN 60204-1: 2006+A1:2009, EN ISO 12100:2010, EN ISO 13849-1: 2008, EN 12601: 2010

(1)Prime Power(PRP):

According to ISO 8528-1:2005, Prime power is the maximum power which a generating set is capable of delivering continuously whilst supplying a variable electrical load when operated for an unlimited number of hours per year under the agreed operation conditions with the maintenance intervals and procedures being carried out as prescribed by the manufacturer. The permissible average power output (Ppp) over 24h of operation shall not exceed 70% of the PRP.

(2) Standby Power (ESP):

According to ISO 8528-1:2005, standby power is the maximum power available during a variable electrical power sequence, under the stated operation conditions, for which a generating set is capable of delivering in the event of a utility power outage or under test conditions for up to 200h of operation per year with the maintenance intervals approcedures being caried out as prescribed by the manufacturers. The permissible average power output over 24h of operation shall not exceed 70% of the ESP.





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Engine Specification

Compression Ratio: 17.3:1 Aspiration: Turbocharged & Aftercooled

Bore: 102 mm Displacement: 5.9 L Storke: 120 mm No. of Cylinders: 6

Emission Certification: MEP STAGE I Fuel System: BYC PB/ Electronic Governor

Governor Regulation: ≤3%

ENGINE MOUNTING

| Maximum (Static) Bending Moment at Front Support Mounting SurfaceN | .m | 435 |
|--|----|------|
| Maximum (Static) Bending Moment at Side Pad Mounting SurfaceN | .m | TBD |
| Maximum (Static) Bending Moment at Rear Face of BlockN | .m | 1356 |
| Moment of Inertia of Complete Engine | | |
| | 2 | |

| — Roll Axis | kg∙m² | 16.5 |
|--------------|--------|------|
| — Pitch Axis | kg·m² | 41.1 |
| — Yaw Axis | -ka·m² | |

EXHAUST SYSTEM

| Maximum Back Pressure | -kPa | 10 |
|---|---------|------|
| Exhaust Pipe Size Normally Acceptable | -mm | 75 |
| Maximum Static Supported Weight at the Turbocharger Outlet Flange | -N.m | 13.5 |
| Exhaust Manifold Insulation Acceptable | -Yes/No | No |
| Turbocharger Insulation Acceptable | -Yes/No | No |

AIR INTAKE SYSTEM

| Maximum Intake Air Restriction with Heavy Duty Air Cleaner | | |
|--|--------|-----|
| — Dirty Element | -kPa | 6 |
| — Clean Element | -kPa | 3.7 |
| Minimum Dirt Holding Capacity with Heavy Duty Air Cleaner | -g/cfm | 53 |
| Maximum Temperature Rise from Ambient to the Inlet of the Turbocharger | -°C | 17 |
| | -mm | 76 |

LUBRICATION SYSTEM

Minimum Engine Oil Pressure for Engine Protection Devices:

| -Idle Speed | kPa | 207 |
|--|---|-------------|
| -Governed Speed | kPa | 345 |
| Maximum Oil Temperature | °C | 121 |
| Oil Capacity with OP 9006 Oil Pan: High - Low | litre | 14.2 - 12.3 |
| Minimum Required Lube System Capacity - Sump plus Filters | litre | 16.4 |
| Angularity of Standard Oil Pan: (Values stated are for intermittent operation) | ation only): | |
| — Front Down | _ · · · · · · · · · · · · · · · · · · · | 40 |
| — Front Up | - 0 | 40 |
| — Side to Side | - 0 | 40 |

FUEL SYSTEM

| TOTE IN | | |
|---|------------|-------------------------|
| Type Injection System | | BYC PB Direct Injection |
| Maximum Restriction at Lift Pump | -kPa | 13.6 |
| Maximum Allowable Head on Injector Return Line (Consisting of Friction Head | and Statio | c Head) |
| | -kPa | 67.7 |
| Total Drain Flow (constant for all loads) | -litre/hr | 30 |







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Alternator

| Alternator | | |
|--------------------------------|-------|--------------------------------|
| Poles | Num | 4 |
| Winding Connections (standard) | | Star-serie |
| Insulation | Class | H class |
| Enclosure (according IEC-34-5) | | IP23 |
| Exciter System | | Brushless |
| Voltage Regulator | | A.V.R. (Electronic) |
| Bearing | | Single bearing |
| Coupling | | Flexible disc |
| Coating type | | Standard (Vacuum impregnation) |

Options

| Engine Alternator | | Generator Sets | Fuel System | Canopy |
|--|---|---|--|--|
| Water Jacket Preheater Oil Preheater | Winding Temperature measuring Instrument Alternator Preheater PMG Anti-damp and anti-corrosion treatment Anti-condensation heater | ●Tools with the machine | Low fuel level alarm Automatic fuel feeding system Fuel T-valves | ●Rental Type Canopy ●Trailer |
| Lubricating System | Exhaust System | Cooling System | Control Panel | Voltages |
| Oil with the machine | ●Protection board from hotness | Front heat protectionCoolant (-30°C) | Remote control panel ATS Remote controller Synchronizing controller | • 415/240V • 380/220V • 220/127V • 220/127V • 200-115V |









Control Panel



Product description

- Single gen-set controller for Stand-by and Primepower applications
- · Direct communication with EFI engines
- Total remote monitoring and control

Key features

- · Easy to install, configure and use
- Wide range of communication capabilities including:
 - connection via RS232, RS485, CAN and on board USB
 - internet access using Ethernet or GPRS
 - support for Modbus and SNMP protocols
- Cloud-based monitoring and control
- · Active SMS and emails in different languages
- 2x 5 A binary outputs for cranking and fuel solenoid
- Option for up to 16 additional binary inputs/outputs
- Flexible event based history with up to 350 events
- · Load shedding, dummy load capability
- Automatic temperature based cooling/heating
- · Comprehensive gen-set protections
- Multipurpose flexible timers
- True RMS measurement

Available extension modules

| Product | Description | Order code |
|--------------|------------------------------------|-------------|
| CM-Ethernet | Ethernet interface | CM2ETHERXBX |
| CM-GPRS | GSM modem / wireless internet | CM2GPRSXXBX |
| CM-RS232-485 | Dual port interface | CM223248XBX |
| EM-BIO8-EFCP | 8 additional binary inputs/outputs | EM2BIO8EXBX |

Functions and protections

| Description | ANSI code | Descritption | ANSI code |
|--|-----------|---------------------|-----------|
| Over voltage | 59 | Load shedding | 32P |
| Under voltage | 27 | Overload | 32 |
| Voltage asymmetry and Phase rotation** | 47 | Power factor | 55 |
| Over frequency | 81H | Temperature | 49T |
| Under frequency | 81L | Gas (fuel) level | 71 |
| Over current* | 50 + 51 | Earth fault current | 50N + 64 |
| Current unbalance | 46 | | |

^{*} Short current only





^{**} Fixed setting