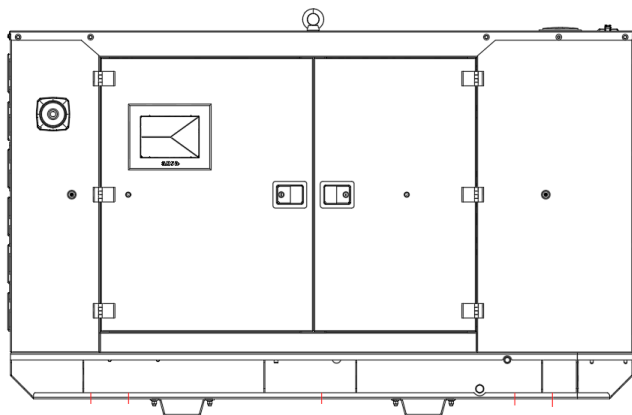


## APD70BD

POWER  
YOUR  
FUTURE70 kVA / 56kW  
POWERED by BAUDOUIN

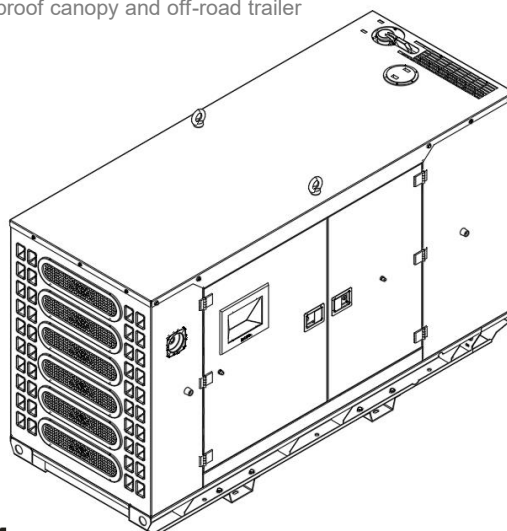
## DIESEL GENERATING SET 400/230 V - 50 Hz - 3 Phase

| MODEL            |         |     | APD70BD |
|------------------|---------|-----|---------|
| Power<br>Pf. 0.8 | Standby | kVA | 70      |
|                  |         | kW  | 56      |
|                  | Prime   | kVA | 63      |
|                  |         | kW  | 50.4    |

**Standby:** Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings. In accordance with ISO 3046.

**Prime:** Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hours period. In accordance with ISO 8528, ISO 3046.

- ✓ High quality, reliable and complete power unit
- ✓ Compact design
- ✓ Easy start and maintenance possibility
- ✓ Every generating set is subject to a comprehensive test program which includes full load testing, checking and provision of all control and safety shut down functions testing
- ✓ Fully engineered with a wide range of options and accessories: Canopy, sound proof canopy and off-road trailer



Manufacturer reserves the right to make changes in model, technical specifications, color, equipment and accessories without prior notice.

## ENGINE

| BAUDOUIN                         |         |              |
|----------------------------------|---------|--------------|
| Model                            |         | 4M10G2D0/S   |
| Engine Power Output at rated rpm | kWm     | 66           |
|                                  | HP      | 88.5         |
| Aspiration and Cooling           |         | Turbocharged |
| Total Displacement               | Litre   | 4.087        |
| No. of Cylinders and Build       |         | 4 - Inline   |
| Engine Speed                     | rpm     | 1500         |
| Bore and Stroke                  | mm × mm | 105 × 118    |
| Compression Ratio                |         | 17.5:1       |
| Governor                         |         | Electronic   |
| Fuel Consumption at full load    | L/hr    | 15           |
| Fuel Tank Capacity               | Litre   | 180          |
| Oil Capacity                     | Litre   | 13           |
| Coolant Capacity                 | Litre   | 17.9         |
| Radiator Cooling Air             | m³/min  | 146          |
| Air Intake – Engine              | m³/min  | 4.17         |
| Exhaust Gas Flow                 | m³/min  | 14.2         |

- ✓ Heavy duty diesel engine
- ✓ Four stroke, water cooled
- ✓ Direct injection fuel system
- ✓ Electronic Governor system
- ✓ 12Vdc starter and charge alternator
- ✓ Replaceable fuel filter, oil filter and dry element air filter

- ✓ Cooling radiator and fan
- ✓ Starter battery (with lead acid) including Rack and Cables
- ✓ Flexible fuel connection hoses and manual oil sump drain valve
- ✓ Industrial capacity exhaust silencer and steel bellows
- ✓ Jacket water heater(at automatic models)
- ✓ Operation manuals and circuit diagram documents

## ALTERNATOR

|                                       |                                                          |
|---------------------------------------|----------------------------------------------------------|
| Design                                | Brushless single bearing, revolving field                |
| Stator                                | 2/3 pitch                                                |
| Rotor                                 | Single bearing, flexible disc                            |
| Insulation System                     | Class H                                                  |
| Standard Temperature Rise             | 125 - 163° C Continuous                                  |
| Exciter Type                          | Self Excited                                             |
| Phase Rotation                        | A (U), B (V), C (W)                                      |
| Alternator Cooling                    | Direct drive centrifugal blower fan                      |
| AC Waveform Total Harmonic Distortion | No load < 1.5%. Non distorting balanced linear load < 5% |
| Telephone Influence Factor (TIF)      | <50 per NEMA MG1-22.43                                   |
| Telephone Harmonic Factor (THF)       | <2%                                                      |

- ✓ Brushless, single bearing system, flexible disc, 4 poles
- ✓ Insulation class H
- ✓ Standard degree of protection IP22 (\*IP23 is available.)
- ✓ Self-exciting and self-regulating

- ✓ Impregnation with tropicalized epoxy varnish
- ✓ Solid state Automatic Voltage Regulator
- ✓ Stator winding with 2/3 pitch for improved harmonics

## CONTROL SYSTEM

Control supervision and protection panel is mounted on the genset base frame. The control panel is equipped as follows:

### 1. Auto Mains Failure Control Panel

Panel equipments:

- ✓ Control with AMF module
- ✓ Static battery charger
- ✓ Emergency stop push button

### a) Generating set control module DSE6120 features:

- ✓ The module is used to monitor main supply and starts and stops of a standby generating set
- ✓ Micro-processor based design
- ✓ Automatic control of main and generator contactors
- ✓ Monitors engine performance and AC power output LED alarm indication
- ✓ Front panel configuration of timers and alarm trip points
- ✓ 4 configurable analogue/digital inputs, 8 configurable digital inputs
- ✓ 6 configurable DC outputs
- ✓ Easy push button control

STOP/RESET - MANUAL - AUTO - TEST - START

### b) Metering via LCD display:

- ✓ Generator Volts (L-L / L-N)
- ✓ Generator Kva
- ✓ Generator kW
- ✓ Generator Cos ( $\Phi$ )
- ✓ Engine oil pressure (Psi-Bar)
- ✓ Generator Ampere (L1,L2,L3)
- ✓ Engine temperature ( $^{\circ}\text{C}$  &  $^{\circ}\text{F}$ )
- ✓ Generator Frequency (Hz)
- ✓ Plant battery volts
- ✓ Engine hours run
- ✓ Mains Volts (Ph-Ph / Ph-N)



DSE 6120

### c) Alarms:

- ✓ Over and Under Speed
- ✓ Low and High Battery Volt.
- ✓ Start and Stop Failure
- ✓ Charge fail
- ✓ Over Current
- ✓ Under / Over Generator Voltage
- ✓ Low Oil Pressure
- ✓ Emergency stop
- ✓ High engine temperature

### d) LED indications

- ✓ Mains available
- ✓ Generator available
- ✓ Mains on load
- ✓ Generator on load

## 2. Power Outlet Terminal Board Mounted on the Gen-set Base Frame

## OPTIONAL EQUIPMENTS

### Diesel Engine

- ✓ Oil heater

### Alternator

- ✓ 3/4 Pole Output Circuit Breaker
- ✓ Anti-condensation Heater

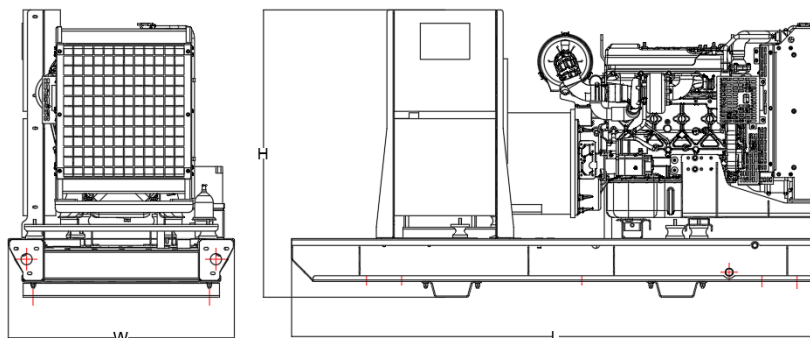
### Panel

- ✓ Charge ammeter
- ✓ Transfer Switch 3Pole
- ✓ Transfer Switch 4 Pole
- ✓ Earth Fault ,single set

### Accessories

- ✓ Bulk fuel tank
- ✓ Automatic filling system
- ✓ Fuel-water separator filter
- ✓ Low fuel level alarm
- ✓ Residential silencer
- ✓ Enclosure or sound proof canopy
- ✓ Trailer
- ✓ Manual oil drain pump
- ✓ Tool kit for maintenance

## CHASSIS

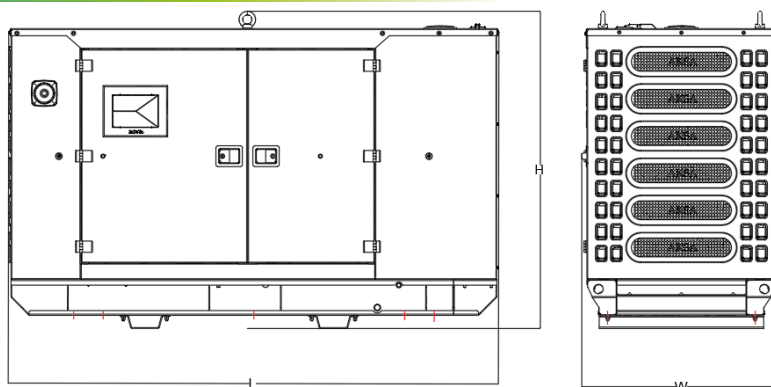


- ✓ The complete gen-set is mounted as whole on a heavy-duty fabricated, steel base frame
- ✓ Anti-vibration pads are fixed between the engine/alternator feet and the base frame
- ✓ Base frame design incorporates an integral fuel tank (Up to 1000 kVA)
- ✓ The generating set can be lifted or carefully pushed / pulled by the base frame
- ✓ Dial type fuel gauge and drain plug on the fuel tank
- ✓ Forklift pockets within base frame (up to 500kVA)

## DIMENSIONS

| OPEN TYPE             |    |                |
|-----------------------|----|----------------|
| DIMENSIONS (L×W×H)    | mm | 2348×1004×1275 |
| DRY WEIGHT            | kg | 1095           |
| SOUND ATTENUATED TYPE |    |                |
| DIMENSIONS (L×W×H)    | mm | 2600×1058×1681 |
| DRY WEIGHT            | kg | 1345           |

## CANOPY



- ✓ All canopy parts are designed with modular principles
- ✓ Without welding assembly
- ✓ Doors on each side
- ✓ All metal canopy parts are painted by electrostatic polyester powder paint
- ✓ Exhaust silencer is protected against environment influences
- ✓ Thermally insulated engine exhaust system
- ✓ Emergency stop push button is installed outside of the canopy
- ✓ Easy lifting and moving
- ✓ Easy maintenance and operation

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