

# APD50P

Engine : Perkins  
 Alternator : Stamford  
 Control System : P 72



This generator set is available with CE certification.

## 3 Phase Ratings, 50 Hz, PF 0,0

Voltage	Standby Rating (ESP)		Prime Rating (PRP)		
	kVA	kW	kVA	kW	Amp
400/230	50,00	40,00	45,00	36,00	64,00

**Standby Rating (ESP):** Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528. Overload is not allowed.

**Prime Rating (PRP):** Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation, in accordance with ISO 3046.

## STANDARD SPECIFICATIONS

- Heavy duty, water cooled diesel engine
- Radiator with mechanical fan
- Protective grille for fan and rotating parts
- Electric starter and charge alternator
- Starting battery (with lead acid) including rack and cables
- Engine jacket cooling heater
- Steel base frame and anti-vibration isolators
- Spare Fuel Tank
- Flexible fuel connection hoses
- Two bearing, class H alternator
- Industrial exhaust silencer and steel belows supplied separately
- Static battery charger
- Manual for use and installation

## OPTIONAL EQUIPMENTS

ENGINE

OTHER ACCESSORIES

ALTERNATOR

CONTROL SYSTEM

TRANSFER SWITCH

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## ➤ DIESEL ENGINE SPECIFICATIONS

Manufacturer		Perkins
Model		1103A-33TG1
No. of Cylinders and Build		3 Cylinder, In Line
Aspiration and Cooling		Turbo Charged
Maximum Standby Power		1500 rpm
		45,60 kW [61,10HP]
Total Displacement	L	3,300
Bore and Stroke	mm	105x127
Compression Ratio		17.25:1
Rated Speed (rpm)	rpm	1500
Governor		Mechanical
Oil Capacity	L	8,30
Coolant Capacity	L	10,20
Intake Air Flow	m <sup>3</sup> /min.	2,90
Radiator Cooling Air	m <sup>3</sup> /min.	53,00
Exhaust Gas Flow	m <sup>3</sup> /min.	7,00
Start System		12 V d.c.
Fuel Consumption	Load	%100
	L/h	10,70

## ➤ ALTERNATOR SPECIFICATIONS

Make		Stamford
Frequency	Hz	50
Design		Brushless, 2 poles
Phase		3
Voltage	V	400/230
Current	A	0,00
Insulation Class		H

## ➤ DIEMENSIONS AND WEIGHT

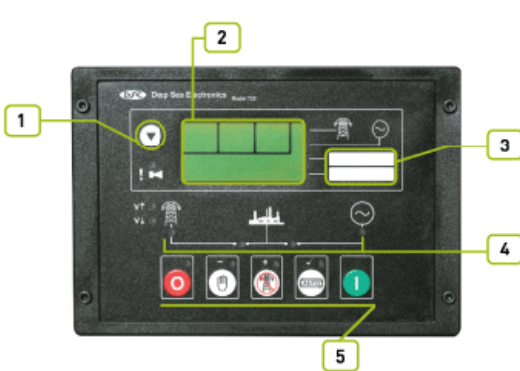
Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
APD50P	800,00	1730,00	900,00	1185,00	82,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
ASM 3	1000,00	2120	920	1480	110

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## P 72 - Control System



- 1 LCD display scroll button
- 2 LCD display
- 3 Additional alarm / Status LED's
- 4 Status LED's
- 5 Operation selecting buttons

### Devices

DSE, model 720 Auto Mains Failure control module  
 Static battery charger 5A, 220/240 volt  
 Emergency stop push button and fuses for control circuits

### Construction and Finish

Components installed in sheet steel enclosure. Phosphate chemical, pre-coating of steel provides corrosion resistant surface  
 Polyester composite powder topcoat forms high gloss and extremely durable finish  
 Lockable hinged panel door provides for easy component access

### Installation

Control panel is mounted generating set baseframe on robust steel stand.  
 Located at side of generating set with properly panel visibility.

### Generating Set Control Unit

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- Standard Specifications
- Microprocessor controlled
  - LCD display makes information easy to read
  - Black-lit character/icon LCD display
  - Transfer between mains (utility) and generator power
  - On-site module configuration and remote configuration (max 100 meters) using PC software
  - User-friendly set-up and button layout
  - Front panel programming
  - Remote start
  - Multiple engine parameters are monitored simultaneously
  - Controls: Stop/Reset, Manual, Auto, Test, Start, buttons. An additional push button next to the LCD display is used to scroll through the modules' metering displays

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## Instruments

- ENGINE
- Engine speed
- Oil pressure
- Coolant temperature
- Run time
- Battery volts
- GENERATOR
- Voltage (L-N)
- Current (L1-L2-L3)
- Frequency
- MAINS
- Voltage (L-L, L-N)

## Protection Circuits

- WARNING
- Battery charge failure
- Low battery voltage
- SHUT DOWNS
- Fail to start
- Emergency stop
- Low oil pressure
- High engine temperature
- Over /Under speed
- Under/over generator frequency
- Failed to reach loading voltage
- Failed to reach loading frequency
- ELECTRICAL TRIP
- Generator over current

## Options

- High oil temperature shut down
- Low fuel level alarm
- High fuel level alarm
- Low coolant level

## Standards

- Electrical Safety / EMC compatibility
- BS EN 60950 Electrical business equipment
- BS EN 61000-6-2 EMC immunity standard
- BS EN 61000-6-4 EMC emission standard for the industrial environment

## Static Battery Charger

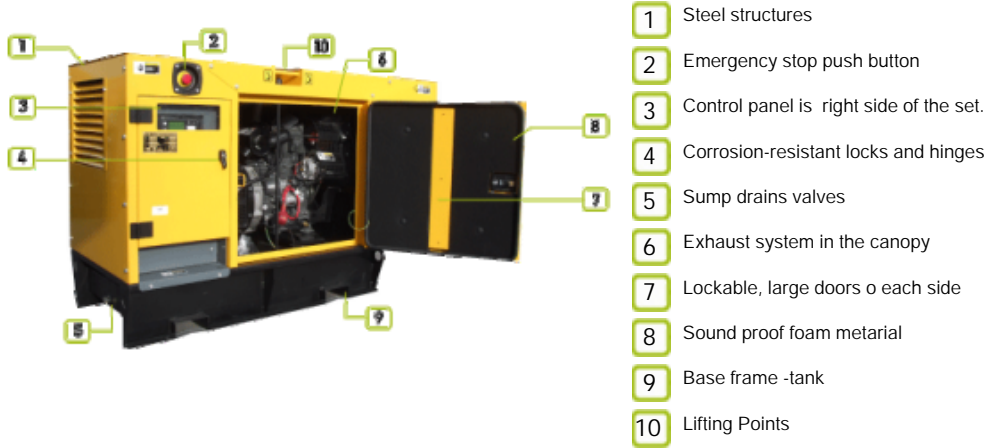
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## 1 ASM 3 - Canopy



## 2 Introduction

Sound-attenuated and weather protective enclosures for generating sets from Akxa, meet event the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies (8 - 275kVA) fit directly to the open generator set to provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

## 3 Standard Specifications

Compact footprint, low profile design.

Enclosure, generator set, exhaust system and base-tank are pre-assembled, pre-integrated and shipped as one package

Body made from steel components treated with polyester powder coating

Fire retardant foam insulation

Easy access to all service points

Exhaust system inside canopy

Large doors on each side

Control panel viewing window in a lockable access door

Emergency stop push button mounted on enclosure exterior

Cooling fan and battery charging alternator fully guarded

Fuel fill and battery can only be reached via lockable access doors.

Lifting points on the top of canopy and base frame

Customer options available to meet your applications needs.

Width	mm.	920
Lenght	mm.	2120
Height	mm.	1480
Fuel Tank Capacity		110