Standby 215 kVA
Diesel Genarating Sets

# APD 215 WD

Engine : Aksa
Alternator : Aksa
Control System : P 4

SZUTEST This generator set is manufactured in facilities certified to ISO 9001.

CE This generator set is available with CE certification.

## 3 Phase Ratings, 50 Hz, PF 0,8

| | Standby Rating (ESP) | | Prime Rating (PRP) | | |
|---|---|---|---|---|---|
| Voltage | kVA | kW | kVA | kW | Amp |
| 400/230 | 215,00 | 172,00 | 195,00 | 156,00 | 281,00 |

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 perod of operation,in accordance with ISO 3046.

## STANDARD SPECIFICATIONS

Water cooled, Diesel engine
46/50 °C ambient rated 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
Base frame design incorporates an integral fuel tank and anti-vibration isolators
Flexible fuel connection hoses
Single bearing, class H alternator
Industrial exhaust silencer and steel belows supplied separately
Static battery charger
Manual for use and installation

## OPTIONAL EQUIPMENTS

### ENGINE

- Fuel-Water Seperator Filter

### ALTERNATOR

- Main line circuit breaker

### CONTROL SYSTEM

- Charge Ammeter

### OTHER ACCESSORIES

- Enclosure: weater protective or sound attenuated
- Trailer
- Tool kit for maintenance
- Main Fuel Tank

### TRANSFER SWITCH

-
- Four Pole Contactor


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## DIESEL ENGINE SPECIFICATIONS

| | | |
|---|---|---|
| Manufacturer | | Aksa |
| Model | | WD615.68D |
| No. of Cylindirs and Build | | 6 Cylinder, Sequential Typ |
| Aspiration and Cooling | | Turbo Charged and Search Refrigerated |
| Maximum Standby Power | | 1500 rpm<br>187 kW[250HP] |
| Total Displacement | L | 9,72 |
| Bore and Stroke | mm | 126 X 130 |
| Compression Ratio | | 15,5:1 |
| Rated Speed (rpm) | rpm | 1500 |
| Governor | | Electronic |
| Oil Capacity | L | 19,00 |
| Coolant Capacity | L | 38,00 |
| Intake Air Flow | m³ /min. | 19,00 |
| Radiator Cooling Air | m³ /min. | 260 |
| Exhaust Gas Flow | m³ /min. | 38,00 |
| Exhaust Gas Tempratures | ° C | 560 |
| Start System | | 24 V d.c. |
| Fuel Consumption | Load | %100 |
| | L/h | 42,00 |

## ALTERNATOR SPECIFICATIONS

| | | |
|---|---|---|
| Make | | Aksa |
| Frequency | Hz | 50 |
| Design | | Brushless, 4 poles |
| Cos Phi | | 0,80 |
| Phase | | 3 |
| Voltage | V | 400/230 |
| Insulation Class | | H |
| Rotor | | Single Bearing System, Flexible Disc |
| Excitation System | | Electronic ( AVR ) |

## DIEMENSIONS AND WEIGHT

| Open Type | Dry Weight | Lenght | Width | Height | Tank Capacity |
|---|---|---|---|---|---|
| | kg. | mm. | mm. | mm. | L |
| APD 215 WD | 2510 | 2900 | 1150 | 2000 | 420 |
| Sound Attenuated Type | Dry Weight | Lenght | Width | Height | Tank Capacity |
| | kg. | mm. | mm. | mm. | L |
| | | | | | |
| ASM 7 | 3230 | 4000 | 1210 | 2000 | 420 |


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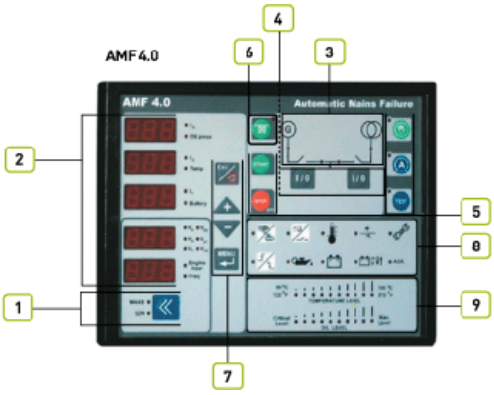
## P 4 - Control System




1 Mains / Generator instrumentation button
2 Digital instrumentation display
3 Status LED's
4 Mains / Generator transfer buttons
4 Operation selecting buttons
5 PreHeat buttons
7 Configuration buttons
8 Alarm LED's
9 Graphic gauge

## Devices

Model AMF 4 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

AMF 4
The AMF 4 conrol module is a standard addition to our APD series generator sets upto 200kVA and it have been designed to start and stop diesel generating sets, The AMF 4 includes the additional capability of being able to monitor a mains (utility) supply and is therefore suitable for controlling a standby generating set in conjunction with an automatic transfer switch.
The AMF 4 also indicates operational status and fault conditions, automatically shutting down the generating set and indicating faults by means of its LED display on the front panel.

Standard Specifications

Microprocessor controlled
5 digital LED display (3 digit 7-segment) makes information easy to read
Front panel programming
Soft touch membrane keypad and nine operation and three menu navigation buttons
Recording of last 10 failure
Engine maintenance time warning
Controls: Stop/Off, Start, Manual, Auto, Test, Heater, Transfer to generator, Transfer to mains, Menu navigations buttons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## ASM 7 - Canopy

1 Steel structures
2 Emergency stop push button
3 Control panel is right side of the set.
4 Corrosion-resistant locks and hinges
4 Sump drains valves
5 Exhaust system in the canopy
7 Lockable, large doors o each side
8 Sound proof foam metarial
9 Base frame -tank
10 Lifting Points

## Introduction

Sound-attenuated and weather protective enclosures for generating sets from Aksa, 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.

## Standart 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. | 1210 |
| Lenght | mm. | 4000 |
| Height | mm. | 2000 |
| Fuel Tank Capacity | | 420 |


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