

# AD 330

Engine : Doosan  
 Alternator : Mecc Alte  
 Control System : P 732 control system



## ISO8528

This generator set has been designed to meet ISO 8528 regulation.

## SZUTEST

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



This generator set is available with CE certification.

## 2000/14/EC

Enclosed product is tested according to EU noise legislation 2000/14/EC

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

Voltage	Standby Rating (ESP)		Prime Rating (PRP)		
	kVA	kW	kVA	kW	Amp
400/230	330,00	264,00	300,00	240,00	433,00

**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

- Water cooled, Diesel engine
- Radiator with mechanical fan
- Protective grille for rotating and hot parts
- Electric starter and charge alternator
- Starting battery (with lead acid) including rack and cables
- Engine coolant 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 bellows supplied separately
- Static battery charger
- Manual for application and installation

### OPTIONAL EQUIPMENTS

#### ENGINE

- Fuel-Water Separator Filter
- Oil heater

#### ALTERNATOR

- Anti-Condensation Heater
- Over sized alternator
- PMG excitation + AVR
- Main line circuit breaker

#### CONTROL SYSTEM

- Automatic synchronising and power control system ( multi gen-set Parallel )
- Transition synchronization with mains
- Remote annunciator panel
- Remote relay output
- Alarm output relays
- Remote communication with modem
- Earth fault, single set
- Charge Ammeter

#### OTHER ACCESSORIES

- Automatic or manual fuel filling system
- Manual oil drain pump
- Low and high fuel level alarm
- Residential silencer
- Enclosure: weater protective or sound attenuated
- Duct adapter ( on radiator)
- Inlet and outlet motorised louvers
- Inlet and outlet acoustic baffles
- Trailer
- Tool kit for maintenance
- 1500/3000 hours maintenance kit
- Double wall chassis
- Main Fuel Tank

#### TRANSFER SWITCH

- Three Pole Contactor
- Four Pole Contactor
- Motor Switch

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## ● DIESEL ENGINE SPECIFICATIONS

Manufacturer		Doosan		
Model		P126TI-II		
No. of Cylinders and Build		6 Cylinder, In Line		
Aspiration and Cooling		Turbo Charged and After Cooled		
Maximum Standby Power		1500 rpm		
		294,00 kW [394,00HP]		
Total Displacement	L	11,050		
Bore and Stroke	mm	123 x 155		
Compression Ratio		17,0:1		
Rated Speed (rpm)	rpm	1500		
Governor		Electronic		
Oil Capacity	L	23,00		
Coolant Capacity	L	65,00		
Intake Air Flow	m <sup>3</sup> /min.	20,10		
Radiator Cooling Air	m <sup>3</sup> /min.	295,00		
Exhaust Gas Flow	m <sup>3</sup> /min.	47,40		
Exhaust Gas Temperature	° C	590,00		
Start System		24 V d.c.		
Fuel Consumption	Load	%100	%75	%50
	L/h	63,10	47,00	31,30

## ● ALTERNATOR SPECIFICATIONS

Make		Mecc Alte
Model		ECO 38-2LN/4
Frequency	Hz	50
Power	kVA	300,00
Design		Brushless, 4 poles
Cos Phi		0,80
Phase		3
Voltage	V	400/230
Current	A	433,00
Insulation Class		H
Temperature		H
Stator		2 / 3 steps
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
AD 330	2375,00	2950,00	1300,00	1588,00	450,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
MS 60	3065	4000	1300	1970	450

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## 1 P 732 control system - Control System



- 1 Menu navigation buttons
- 2 Close mains button
- 3 Main Status and instrumentation display
- 4 Alarm LED's
- 5 Close generator button
- 6 Status LED's
- 7 Operation selecting buttons

### 2 Devices

DSE, model 7320 Auto Mains Failure control module  
 Static battery charger  
 Emergency stop push button and fuses for control circuits

### 3 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

### 4 Installation

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

## 5 Generating Set Control Unit

The DSE 7320 control module is a standard addition to our generator sets from 220 kVA upwards and it has been designed to start and stop diesel and gas generating sets that include electronic and non electronic engines. The DSE 7320 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 DSE 7320 also indicates operational status and fault conditions, automatically shutting down the generating set and indicating faults by means of its LCD display on the front panel.

### Standard Specifications

Microprocessor controlled  
 132 x 64 pixel LCD display makes information easy to read  
 Front panel programming and also via PC software  
 Soft touch membrane keypad and five key menu navigation  
 Remote communications via RS232, RS485 and ethernet and SMS messaging  
 Event logging (50) showing date and time  
 Multiple date and time engine exercise mode and maintenance scheduler  
 Engine block heater control.  
 Controls; stop, manual, auto, test, start, mute lamb test/transfer to generator, transfer to mains, menu navigation.

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## ● Instruments

ENGINE  
 Engine speed  
 Oil pressure  
 Coolant temperature  
 Run time  
 Battery volts  
 Engine maintenance due  
 GENERATOR  
 Voltage (L-L, L-N)  
 Current (L1-L2-L3)  
 Frequency  
 Earth current  
 kW  
 Pf  
 kVAr  
 kWh, kVAh, kVArh  
 Phase sequence  
 MAINS  
 Voltage (L-L, L-N)  
 Frequency

## ● Protection Circuits

WARNING  
 Charge failure  
 Battery under voltage  
 Fail to stop  
 Low fuel level (opt.)  
 kW over load  
 Negative phase sequence  
 Loss of speed signal  
 PRE-ALARMS  
 Low oil pressure  
 High engine temperature  
 Low engine temperature  
 Over /Under speed  
 Under/over generator frequency  
 Under/over generator voltage  
 ECU warning  
 SHUT DOWNS  
 Fail to start  
 Emergency stop  
 Low oil pressure  
 High engine temperature  
 Low coolant level  
 Over /Under speed  
 Under/over generator frequency  
 Under/over generator voltage  
 Oil pressure sensor open  
 Phase rotation  
 ELECTRICAL TRIP  
 Earth fault  
 kW over load  
 Generator over current  
 Negative phase sequence

## ● Options

High oil temperature shut down  
 Low fuel level shut down  
 Low fuel level alarm  
 High fuel level alarm  
 EXPANSION MODULES  
 Editional LED module (2548)  
 Expansion relay module (2157)  
 Expansion input module (2130)

## ● 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

## ● Static Battery Charger

Battery charger is manufactured with switching-mode and SMD technology and it has high efficiency. Battery charger models' output V-I characteristic is very close to square 2405 has fully output short circuit protection and it can be used as a current source. 2405 charger has high efficiency, long life, low failure rate, light weight and low heat radiated in accordance with linear alternatives. The charger is fitted with a protection diode across the output. Charge fail output is available. Connect charge fail relay coil between positive output and CF output. Input: 196-264V. Output: 27,6V 5A or 13,8V 5A.

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## MS 60 - Canopy



- 1 Steel structures.
- 2 Emergency stop push button.
- 3 Control panel is mounted on the baseframe . Located at the right side of the generator set.
- 4 Corrosion-resistant locks and hinges.
- 5 oil could be drained via valve and a hose
- 6 Exhaust system in the canopy.
- 7 special large access doors for easy maintenance
- 8 in front and back side special large access doors for easy maintenance
- 9 Base frame -fuel tank.
- 10 Lifting points similar to ISO container , located on each top corner of the canopy
- 11 the canopy provides easy access to radiator cap.
- 12 sound proofing materials
- 13 Plastic air intake pockets.

## Introduction

Sound-attenuated and Weather-protective Enclosures 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 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.

## Standard Specifications

Compact footprint, low profile design.

Enclosure, generator set, exhaust system and fuel tank are pre-ssembled, 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.

Aksa makes its generating sets' noise level tests in accordance with directive 2000/14/EC validation of the noise level test has been approved by the notified body Szutest

<b>Width</b>	<b>mm.</b>	1300
<b>Lenght</b>	<b>mm.</b>	4000
<b>Height</b>	<b>mm.</b>	1970
<b>Fuel Tank Capacity</b>	<b>L</b>	450