





ISO8528 This generator set has been designed to meet ISO 8528 regulation.

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

CE 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, 60 Hz, PF 0,8

	Standby Rating (ESP)		Prime Rating (PRP)		
Voltage	kVA	kw	kVA	kw	Amp
480/277		202,00		186,00	280,00
380/220		200,00		184,00	349,00
208/120		201,00		185,00	642,00

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.

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. Prime Rating (PRP):

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(for open sets)

Static battery charger

Manual for application and installation

OPTIONAL EQUIPMENTS

ENGINE

- Fuel-Water Seperator 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
- 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
- Electrical 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
- Double wall chassis
- Supplied with oil and coolant 30 °C
- Main Fuel Tank
- Automatic transfer switch

TRANSFER SWITCH

- Three Pole Contactor
- Four Pole Contactor
- Motor Switch



• DIESEL ENGINE SPECIFICATIONS

Manufacturer		Doosan				تولید کننده
Model		P086TI				مدل
No. of Cylinders and Build		6 Cylinder	, In Line		نوع آرایش آنها	تعداد سیلندرها و
Aspiration and Cooling		Turbo Cha	arged and	Change Air (نک کاری Cooled	سیستم تنفس و خ
					1800 rpm	
Maximum Standby Power					223,00 kw [299,00HP]	توان Standby
Total Displacement	L	8071,000				جابه جایی کل
Bore and Stroke	mm	طر سیلندر و کورس پیستون 111x139			قطر سیلندر و کور	
Compression Ratio		نسبت تراکم 16.4:1 سرعت مجاز 1800				
Rated Speed (rpm)	rpm	سرعت مجاز 1800				
Governor		Electronic			گاورنر	
Oil Capacity	L	فيت روغن 23,00			ظرفيت روغن	
Coolant Capacity	L	لرفیت خنک کننده 46,00			ظرفیت خنک کنن	
Intake Air Flow	m³ /min.	تریان هوای مصرفی 23,35			جریان هوای مصره	
Exhaust Gas Flow	m³ /min.	ریان گاز خروجی از اگزوز 44,60			جریان گاز خروجی	
Exhaust Gas Temperature	° C	ی گاز خروجی از اگزوز 524,00			دمای گاز خروجی	
Start System		24 V d.c.				استارتر
Fuel Consumption	Load	%100	%75	%50	صرف سوخت	
Fuel Consumption	L/h	50,60	37,70	25,10		

• ALTERNATOR SPECIFICATIONS

Make		Mecc Alte	تولید کننده
Model		ECO38 3SN/4	مدل
Frequency	Hz	60	فر کانس
Power	kw	216,00	توان
Design		Brushless, 4 poles	طراحى
Cos Phi		0,80	كسينوس في
Phase		3	فاز
Voltage	V	480/277	ولتاژ
Current	А	325,00	جریان کلاس عایق بندی
Insulation Class		Н	كلاس عايق بندى
Temperature		Н	دما
Stator		2 / 3 steps	استاتور
Rotor		Single Bearing System, Flexible Disc	روتور
Excitation System		Electronic (AVR)	سیستم تحریک

DIEMENSIONS AND WEIGHT

Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AD 201-6	1830,00	2688,00	1150,00	1624,00	380,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AK 50	2205	3400	1217	1938	380



P 732 control system - Control System



- 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

Devices

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

Construction and Finish

Comonents 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 or power module. Located at side of generating set with properly panel visibility.

Generating Set Control Unit

The DSE 7320 conrol module is a standard addition to our generator sets from 220 kVA upwards and it has been designed to start and stop diesel andgas 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 DSE7320 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, manuel, auto, test, start, mute lamb test/transfer to generator, transfer to mains, menu navigation.



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 kVAr kWh, kVAh, kVArh Phase sequence MAINS Voltage (L-L, L-N) Frequency

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) Expension relay module (2157) Expansion input module (2130)

Static Battery Charger

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** Farth fault kW over load Generator over current Negative phase sequence

Standards

Elecrical 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

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1 Steel structures

2 Emergency stop push button

Control panel is right side of the set.

4 Corrosion-resistant locks and hinges

5 Sump drains valves

Sound proof foam metarial

7 Lifting Points

Introduction

Sound-attenuated and Weather-protective Enclosures Sound-attenuated and weather protective enclosures for generating sets from Abyaran, 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.

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

Width	mm.	1217
Lenght	mm.	3400
Height	mm.	1938
Fuel Tank Capacity	L	380