





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.

This generator set is available with CE certification.

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

2000/14/EC

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	Standby Rating (ESP)			Prime Rating (PRP)	
Voltage	kVA	kW	kVA	kW	Amp
480/277		404,00		340,00	511,00
380/220		404,00		340,00	645,00
208/120		404,00		340,00	1180,00

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. Standby Rating (ESP):

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):

Heavy duty, 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



ENGINE

- Fuel-Water Seperator Filter
- Oil heater

ALTERNATOR

- Anti-Condensation Heater
- Over sized alternator PMG excitation + AVR
- Single Phase (4 lead)
- Main line circuit breaker

CONTROL SYSTEM

- Automatic synchronising and power control system (multi gen-set Parallel)
 Parallel system with mains.
- 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
- 1500/3000 hours maintenance kit Double wall chassis
- Supplied with oil and coolant $\,$ 30 $\,^{\circ}\text{C}$
- Main Fuel Tank
- Automatic transfer switch

TRANSFER SWITCH

- Four Pole Contactor

• DIESEL ENGINE SPECIFICATIONS

Manufacturer		John Deere			تولید کننده
Model		6125 HF			مدل
Epa		TIER II			استاندارد Epa
No. of Cylindirs and Build		6 Cylind	er, In Line		تعداد سیلندرها و نوع آرایش آنها
Aspiration and Cooling		Turbo C	harged and	After Cooled	سیستم تنفس و خنک کاری
Total Displacement	L	12,50			جابه جایی کل
Bore and Stroke	mm	127 X 16	65		قطر سیلندر و کورس پیستون
Compression Ratio		سبت تراكم 17.0:1			نسبت تراكم
Rated Speed (rpm)	rpm	سرعت مجاز 1800			
Governor		Electronic			
Oil Capacity	L	_			ظرفیت روغن
Coolant Capacity	L	رفیت خنک کننده			ظرفیت خنک کننده
Intake Air Flow	m³ /min.	یان هوای مصرفی 34,00			جریان هوای مصرفی
Exhaust Gas Flow	m³ /min.	ریان گاز خروجی از اگزوز 91,00			
Exhaust Gas Tempratures	° C	های گاز خروجی از اگزوز			
Start System		12 V d.c			استارتر
Fuel Consumption	Load	%100	%75	%50	مصرف سوخت
Tuel consumption	L/h	94,50	69,20	47,70	مصرف سوحت

• ALTERNATOR SPECIFICATIONS

Make		Stamford	تولید کننده
Model		HCI 544C	مدل
Frequency	Hz	60	فركانس
Power	kVA	475	توان
Design		Brushless, 4 poles	طراحی کسینوس فی
Cos Phi		0,80	كسينوس في
Phase		3	فاز
Voltage	V	480/277	ولتاژ
Current	А	714	جريان
Insulation Class		Н	کلاس عایق بندی
Temperatur		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
AJD 404-6	3470	3230	1170	2050	330
Sound	Dry Weight	Lenght	Width	Height	Tank Capacity
Attenuated	kg.	mm.	mm.	mm.	L
Туре					
AK 70	4670	4560	1470	2300	650

P 732 control system - Control System



- Menu navigation buttons
- 2 Close mains button
- 3 Main Status and instrumentation display
- 4 Alarm LED's
- 4 Close generator button
 - Status LED's

5

7 Operation selecting buttons

Devices

DSE, model 7320 Auto Mains Failure control module Static battery charger 5A, 220/240 volt 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 250kVA upwards and it have 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

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)

Protection Circuits

WARNING Charge failure Battery under voltage Fail to stop Low fuel level (opt.) kW over load Negative phase sequence 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

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 efficincy.

Battery charger models' output V-I characteristic is very close to square and output is 5 amper, 24 volt DC. Input 198 - 260 volt AC. 2405 has fully output shot 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 other patience.

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.

🏴 AK 70 - Canopy



- 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 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 (300 - 1100kVA) 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.	1470
Lenght	mm.	4560
Height	mm.	2300
Fuel Tank Capacity		650