



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 EU noise legislation 2000/14/EC

3 Phase Ratings, 60 Hz, PF 1,0

Voltage	Standby Rating (ESP)		Prime Rating (PRP)		
	kVA	kW	kVA	kW	Amp
480/277		250,00		215,00	323,00
380/220		248,00		213,00	404,00
208/120		249,00		214,00	743,00

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
 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 Separator Filter
- Low water level alarm
- Oil heater

ALTERNATOR

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

CONTROL SYSTEM

- Earth fault, single set
- Charge Ammeter

OTHER ACCESSORIES

- Automatic or manual fuel filling system
- Manual oil drain pump
- Electrical oil drain pump
- Residential silencer
- Enclosure: weather 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 °C
- Battery isolating switch
- Main Fuel Tank
- Automatic transfer switch

TRANSFER SWITCH

-
- Four Pole Contactor

➤ DIESEL ENGINE SPECIFICATIONS

Manufacturer		John Deere			تولید کننده
Model		6081 HF			مدل
No. of Cylinders and Build		6 Cylinder, In Line			تعداد سیلندرها و نوع آرایش آنها
Aspiration and Cooling		Turbo Charged and After Cooled			سیستم تنفس و خنک کاری
Total Displacement	L	8,10			جابه جایی کل
Bore and Stroke	mm	116 X 129			قطر سیلندر و کورس پیستون
Compression Ratio		15.7:1			نسبت تراکم
Rated Speed (rpm)	rpm	1800			سرعت مجاز
Governor		Mechanical			گاورنر
Oil Capacity	L	32,00			ظرفیت روغن
Coolant Capacity	L	44,00			ظرفیت خنک کننده
Intake Air Flow	m ³ /min.	21,20			جریان هوای مصرفی
Exhaust Gas Flow	m ³ /min.	58,00			جریان گاز خروجی از اگزوز
Exhaust Gas Temperatures	° C	514			دمای گاز خروجی از اگزوز
Start System		12 V d.c.			استارتر
Fuel Consumption	Load	%100	%75	%50	مصرف سوخت
	L/h	64,80	47,90	32,00	

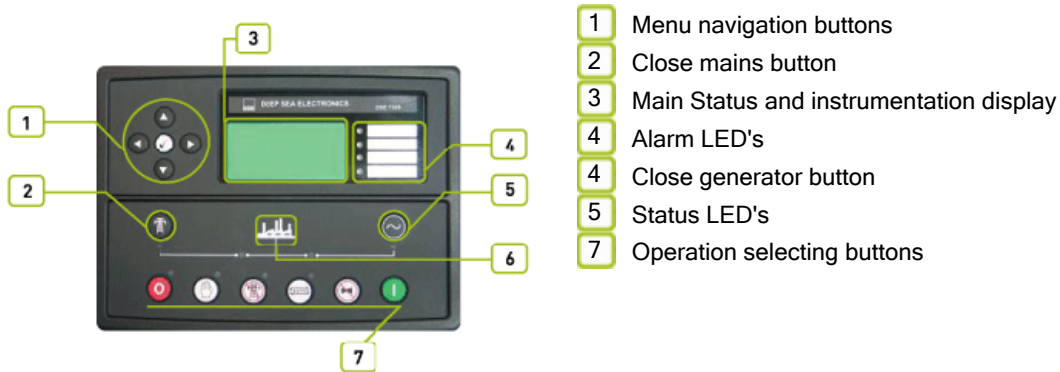
➤ ALTERNATOR SPECIFICATIONS

Make		Stamford	تولید کننده
Model		UCI 444D	مدل
Frequency	Hz	60	فرکانس
Power	kVA	300	توان
Design		Brushless, 4 poles	طراحی
Cos Phi		0,80	کسینوس فی
Phase		3	فاز
Voltage	V	480/277	ولتاژ
Current	A	451	جریان
Insulation Class		H	کلاس عایق بندی
Temperatur		H	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 250-6	2335	2900	1170	1900	420
Sound Attenuated Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
ASM 7	3075	4000	1210	2000	420

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
- 4 Close generator button
- 5 Status LED's
- 7 Operation selecting buttons

2 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

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 250kVA 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

➤ 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
kVA_r
kWh, kVA_h, kVA_r_h
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
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 and output is 5 amper, 24 volt DC. Input 198 - 260 volt AC. 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.

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 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 (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.

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.	1210
Lenght	mm.	4000
Height	mm.	2000
Fuel Tank Capacity		420