



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 EU noise legislation 2000/14/EC

100						
		Standby Rating (ESP)		Prime Rating (PRP)		
	Voltage	kVA	kW	kVA	kW	Amp
	480/277		100,00		91,00	136,00
	380/220		90,00		82,00	
	208/120		99,00		90,00	155,00

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):

Water cooled, Diesel engine 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
- 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: 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
- 1500/3000 hours maintenance kit
 Double wall chassis
 Supplied with oil and coolant 30 °C
 Battery isolating switch

- Main Fuel TankAutomatic transfer switch

TRANSFER SWITCH

- Four Pole Contactor

• DIESEL ENGINE SPECIFICATIONS

Manufacturer		John Deere		تولید کننده	
Model		4045 HF			مدل
Epa		TIER II			استاندارد Epa
No. of Cylindirs and Build		4 Cylinde	r, In Line		تعداد سیلندرها و نوع آرایش آنها
Aspiration and Cooling		Turbo Ch	arged and	After Cooled	سیستم تنفس و خنک کاری
Total Displacement	L	4,50			جابه جایی کل
Bore and Stroke	mm	106 X 12	7		قطر سیلندر و کورس پیستون
Compression Ratio		ىبت تراكم 17.0:1			نسبت تراكم
Rated Speed (rpm)	rpm	سرعت مجاز 1800			
Governor		Electronic			
Oil Capacity	L				ظرفيت روغن
Coolant Capacity	L	فیت خنک کننده			ظرفیت خنک کننده
Intake Air Flow	m³ /min.	ریان هوای مصرفی 8,80			جریان هوای مصرفی
Exhaust Gas Flow	m³ /min.	ریان گاز خروجی از اگزوز 23,80			
Exhaust Gas Tempratures	°C	ای گاز خروجی از اگزوز			
Start System		12 V d.c.			استارتر
Fuel Consumption	Load	%100	%75	%50	مصرف سوخت
r der Consumption	L/h	27,00	21,00	14,30	مصری سوحت

• ALTERNATOR SPECIFICATIONS

Make		Stamford	تولید کننده
Model		UCI 274C	مدل
Frequency	Hz	60	فركانس
Power	kVA	100	توان
Design		Brushless, 4 poles	طراحى
Cos Phi		0,80	طراحی کسینوس فی
Phase		3	فاز
Voltage	V	480/277	ولتاژ
Current	А	150	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 100-6	1255	2150	1020	1550	215
Sound	Dry Weight	Lenght	Width	Height	Tank Capacity
Attenuated	kg.	mm.	mm.	mm.	L
Туре					
ASM 5	1715	3130	1070	1750	195

P 72 - Control System



- 1 LCD display scroll button
- 2 LCD display
- 3 Additional alarm / Status LED's
- 4 Status LED's
- 5 Operation selecting buttons

Devices

DSE, model 720 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

DSE 720

The DSE 720 conrol module is a standard addition to our generator sets up to 250kVA and it have been designed to start and stop diesel and gas generating sets. The DSE 720 module has been designed to monitor generator frequency, volt, current, engine oil pressure, coolant temperature running hours and battery volts. Module monitors the mains supply and switch over to the generator when the mains power fails.

The DSE720 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

LCD display makes information easy to read

Black-lit character/icon LCD display

Transfer between mains (utilty) and generator power

On-site module configuration and remote configuration (max 100 meters) using PC software

User-friendly set-up and button layout

Front panel programming

Remote start

Multiple engine parameters are monitored simultaneously

Controls: Stop/Reset, Manual, Auto, Test, Start, buttons. An additional push button next to the LCD display is used to scroll through the modules' metering displays

Instruments

ENGINE
Engine speed
Oil pressure
Coolant temperature
Run time
Battery volts
GENERATOR
Voltage (L-N)
Current (L1-L2-L3)
Frequency
MAINS
Voltage (L-L, L-N)

Options

High oil temperature shut down Low fuel level alarm High fuel level alarm Low coolant level

Protection Circuits

WARNING Battery charge failure Low battery voltage

SHUT DOWNS
Fail to start
Emergency stop
Low oil pressure
High engine temperature
Over /Under speed
Under/over generator
frequency
Failed to reach loading
voltage
Failed to reach loading
frequency
ELECTRICAL TRIP
Generator over current

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 for the industral environment

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, 12 volt DC. Input 198 - 260 volt AC.

1205 has fully output shot circuit protection and it can be used as a current source.

1205 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 5 - Canopy



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

pre-integrated and shipped as one

Width	mm.	1070
Lenght	mm.	3130
Height	mm.	1750
Fuel Tank Capacity		195