





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 ELL poise legislation 2000/14/EC

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

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	Standby Rating (ESP)				
Voltage	kVA	kw	kVA	kw	Amp
480/277		78,00		71,00	107,00
380/220		75,00		68,00	129,00
208/120		77,00		69,00	239,00

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 perod of operation, in accordance with ISO 3046.

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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

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ENGINE

- Remote Radiator Cooling
- Electronic governor control
- 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

- 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
- Battery isolating switch
- Battery heater
- Main Fuel Tank
- Automatic transfer switch

TRANSFER SWITCH

- Three Pole Contactor
- Four Pole Contactor

• DIESEL ENGINE SPECIFICATIONS

Manufacturer		John Deere			توليد كننده
Model		4045 TF220			مدل
No. of Cylinders and Build		4 Cylinder, In Line			تعداد سیلندرها و نوع آرایش آنها
Aspiration and Cooling		Turbo Ch	arged		سیستم تنفس و خنک کاری
Maximum Standby Power		1800 rpm 86,00 kw[HP]		توان Standby	
Total Displacement	L	4,500			جابه جایی کل
Bore and Stroke	mm	106 X 12	7		قطر سیلندر و کورس پیستون
Compression Ratio		سبت تراکم 17.0:1			نسبت تراكم
Rated Speed (rpm)	rpm	رعت مجاز 1800			سرعت مجاز
Governor		ورنر Mechanical			گاورنر
Oil Capacity	L	يت روغن 13,20			ظرفيت روغن
Coolant Capacity	L	ی <u>ت خنک کنند</u> ه 32,00			ظرفیت خنک کننده
Intake Air Flow	m³ /min.	یان هوای مصرفی 6,80			جریان هوای مصرفی
Exhaust Gas Flow	m³ /min.	ان گاز خروجی از اگزوز 18,40			جریان گاز خروجی از اگزوز
Exhaust Gas Temperature	°C	گاز خروجی از اگزوز 566,00			دمای گاز خروجی از اگزوز
Start System		12 V d.c.			استار تر
Fuel Consumption	Load	%100	%75	%50	مصرف سوخت
	L/h	22,70	17,20	11,60	مصرف شوحت

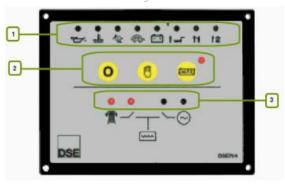
• ALTERNATOR SPECIFICATIONS

Make		Stamford	توليد كننده
Model		UCI 224G	مدل
Frequency	Hz	60	فركانس
Power	kw	83,00	توان
Design		Brushless, 4 poles	طراحى
Cos Phi		0,80	طراحی کسینوس فی
Phase		3	فاز
Voltage	V	480/277	ولتاژ
Current	А	125,00	جريان
Insulation Class		Н	جریان کلاس عایق بندی
Temperature		Н	دما
Stator		2/3 steps	استاتور
Rotor		Single Bearing System, Flexible Disc	روتور
Excitation System		Electronic (AVR)	سيستم تحريك

• DIEMENSIONS AND WEIGHT

Open Type	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AJD 78-6	1160,00	2150,00	1050,00	1459,00	240,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AK 40	1510	3100	1113	1741	240

P 70 - Control System



1 Alarm LED's 2 Operation selecting buttons 3 Status LED's

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DSE, model 704 Auto Mains Failure control module Voltmetre, 0 - 500 Vac, 72 x 72 mm Ammeter, 72 x 72 mm Hour runmeter, Static battery charger 5A, 220/240 volt Emergency stop push button and fuses for control circuits Mains and Generator transfer contactors between electrical lock with load terminals

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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

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Control panel is separate from generating set and wall (installing) type Control cables is connected between genset and conrol panel.

Generating Set Control Unit O

The DSE 704 conrol module is a standard addition to our gas powered generator sets up to 17kVA and it have been designed to start and stop gas generating sets. The DSE 704 module has been designed to automatically start the generator when the mains (utility) power fails. Switch over to the generator when the mains power fails. As soon as mains power is restored the modul transfers the load back to the mains supply The DSE 704 also indicates operational status and fault conditions, automatically shutting down the generating set and indicating faults by means of its LED indcators on the front panel. Standard Specifications

Microprocessor controlled LED indicators. Transfer between mains (utilty) and generator power On-site module configuration User-friendly set-up and button layout Front panel programming Remote start Controls: Stop/Reset, Manual, Auto, buttons.

Instruments

ENGINE - Run time GENERATOR - Voltage (L-L) - Current (L-L)

Options

High oil temperature, shutdown Low fuel level, shutdown Low fuel level, alarm High fuel level, alarm Low coolant level, shutdown

Static Battery Charger

Protection Circuits

WARNING - Battery charge failure

SHUTDOWNS

- Fail to start
- Emergency stop
- Low oil pressure - Under/over speed
- Under/over spee

Standards

BS EN 61000-6-2 EMC immunity standard BS EN 61000-6-4 EMC emission standard for the industral environment

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.



Steel structures

Emergency stop push button

- Control panel is right side of the set.
- Corrosion-resistant locks and hinges
- Sump drains valves
- Sound proof foam metarial
- Lifting Points

Introduction

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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.	1113
Lenght	mm.	3100
Height	mm.	1741
Fuel Tank Capacity	L	240