





ISO8528 This generator set has been designed to meet ISO 8528	3 regulation.
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**SZUTEST** This generator set is manufactured in facilities certified to ISO 9001.

 $\epsilon$ This generator set is available with CE certification.

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

### 1 Phase Ratings, 50 Hz, PF 1,0

	Standby Rating (ESP)		Prime Rating (PRP)		
Voltage	kVA	kw	kVA	kw	Amp
230 Monofaze		24,00		21,00	91,00

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

- Remote Radiator Cooling
- Fuel-Water Seperator Filter

#### **ALTERNATOR**

**ENGINE** 

- Anti-Condensation Heater
- Main line circuit breaker

#### OTHER ACCESSORIES

- Automatic or manual fuel filling system
- Manual oil drain pump
- Residential silencer
- Enclosure: weater protective or sound attenuated
- Trailer
- Tool kit for maintenance
- Main Fuel Tank

#### **CONTROL SYSTEM**

- Charge Ammeter

#### TRANSFER SWITCH

- Three Pole Contactor
- Four Pole Contactor
- Motor Switch



# • DIESEL ENGINE SPECIFICATIONS

Manufacturer		John Deere		تولید کننده
Model		3029DF128		مدل
No. of Cylinders and Build		3 Cylinder, In L	ine	تعداد سیلندرها و نوع آرایش آنها
Aspiration and Cooling		Naturally Aspir	ated	سیستم تنفس و خنک کاری
Maximum Standby Power		1500 rpm 31,00 kw [41,00HP]		توان Standby
Total Displacement	L	2,900		جابه جایی کل
Bore and Stroke	mm	106 X 110		قطر سیلندر و کورس پیستون
Compression Ratio		17,2:1		نسبت تراكم
Rated Speed (rpm)	rpm	1500		سرعت مجاز
Governor		Mechanical		گاورنر
Oil Capacity	L	6,00		ظرفيت روغن
Coolant Capacity	L	بت خنک کننده 15,50		ظرفیت خنک کننده
Intake Air Flow	m³ /min.	1,80		جریان هوای مصرفی
Radiator Cooling Air	m³ /min.	81,00		میزان هوای خنک کننده رادیاتور
Exhaust Gas Flow	m³ /min.	ن گاز خروجی از اگزوز 5,20		جریان گاز خروجی از اگزوز
Start System		ارتر 12 V d.c.		استارتر
Fuel Consumption	Consumption Load %100		مصرف سوخت	
i dei Consumption	L/h	6,80		سفرف سوحت

# ALTERNATOR SPECIFICATIONS

Make		Mecc Alte	تولید کننده
Frequency	Hz	50	<b>فركانس</b>
Power	kw	27,00	توان
Design		Brushless, 4 poles	طراحي
Cos Phi		1,00	طراحی کسینوس فی
Phase		1	فاز
Voltage	V	230	ولتاژ
Insulation Class		Н	کلاس عایق بندی استاتور
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 24 M	720,00	1490,00	900,00	1223,00	70,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AK 20	900	2100	960	1370	70



# P 602 - Control System



- 1 A U]b ghUhi g X]gd`Um"
- 2 8]gd`UmgWfc```ViHncb"
- 3 DU[Yf]bZcfa Uh]cbŁ'Vi Hncb"
- 4 7 ca a cb'U'Ufa ']bX]WUhcf"
- 5 GhUhig @98foj"
- 6 CdYfUh]cb`gY`YVM]b[`ViHncbg"

## Devices

 $8G9\~za~cXY``*\$\&\$~5i~hc~A~U]bg':~U]i~fY~Wtblfc``a~cXi~Y"\\ 6UhhYfm\W.Uf[~Yf']bdi~h'\%~,~!&*(~j~c`hžci~hdi~h'``&+z̄*~J~)~5~f&(~J~Ecf'%~ž~~J~c`h)~5~fl&J~E~ga~Yf[~Yb\Whghcd~di~g\~Vi~hhcb~UbX~Zi~gYg~Zcf~Wtblfc~`V]f\W]hg"$ 

Construction and Finish

7 ca dcbYbfg`]bgfU`YX`]b`g\YYfigHYY`YbWcgi fY"D\cgd\UHY`W\Ya ]\WI`ždfY!\\&Uhf|b[`cZgHYY``dfcj ]XYg`\\&ffcg]cb fYg]gHUbhigi fZUWI"Dc`nYgHYf`\\&a dcg]\Y`dck XYf`\hcd\\&UhfZcfa g`\][\`[`cgg`UbX`YI \hfYa Y`mXi fUV`Y`Z]\b]g\\"@c\\UVY\UbX\\]b[\YX`dUbY`Xccf`dfcj ]XYg`YUgmU\\Yg'gc\\C\\UVY\\\

Installation

``7 cblfc``dUbY``]g'a ci bhYX'cb'VUgYZfUa Y'k]h\ 'ghYY``ghUbX"'@cVWhYX'Uhh\Y'f][\hg]XY'cZh\Y'[YbYfUhcf'gYhfK\Yb'mci `cc\_'Uhh\Y'; Yb"GYh'Zfca '5`hYfbUhcfL

## Generating Set Control Unit

H\Y''8G9'\*\$&\$']g'U'gHUbXUfX'WtbHfc`'a cXi `Y'Zcfci f'[YbYfUhcf'gYhg'i d'hc'&\$\$\_J 5'UbX'ihi\Ug'VYYb'XYg][bYX'hc gHUfhUbX'ghcd'X]YgY`'UbX'[Ug'[YbYfUhcf'gYhg''H\Y'8G9'\*\$&\$'a cXi `Y'\Ug'VYYb'XYg][bYX'hc'a cb]hcf'[YbYfUhcf'gYhg''H\Y'8G9'\*\$&\$'a cXi `Y'\Ug'VYYb'XYg][bYX''hc'a cb]hcf'[YbYfUhcf'gYhg'i fYžWtc'UbhHYa dYfUhi fY''fi bb]b['\ci fg'UbX''VUHYfmj c'hg''A cXi `Y a cb]hcfg'h\Y'a U]bg'gi dd`mUbX'gk]hW\cj Yf'hc'h\Y'[YbYfUhcf'k\Yb'h\Y'a U]bg'dck Yf'ZJ]'g'''H\Y'8G9\*\$&\$'U'gc]bX]WHYg'cdYfUhjcbU''ghUhi g'UbX'ZJi `hWtbX]hjcbgž'5i hca UhjWu'`mg\i Hjb['Xck b'h\Y'; Yb"'GYhUbX'[]j ]b['Hfi Y'Z]fghi d ZJi `hWtbX]hjcb'cZ; Yb"'GYhZJ]'i fY"H\Y'@78'X]gd'Um]bX]WHYg'h\Y'ZJi `h'

### Standard Specifications

A ]WfcdfcWfggcf Wcblfc "YX"

@78 X]gd`Uma U\_Yg`]bZcfa Uh]cb`YUgmhc`fYUX"

(!`]bYž\*( 'I '% &'d]l Y`'X]gd`Um'i

5i hca UhjWU``mhfUbgZYfg'VYhk YYb a Ujbg'fi hj`hmh:UbX'[YbYfUhcf'dck Yf"

A Ubi U dfc[fUa a ]b[ cb ZfcbhdUbY "

I gYf!Zf]YbX`mgYhlid'UbX'Vihhcb``Unncih'

F Ya ch ghufh

9j Ybh`c[[]b[ `f) kg\ck ]b[ 'XUhY 'UbX'h]a Y"

7 cblfc`g. 'Ghcd# YgYhz'A Ubi U`z5i hcz'HYghz'GhUfhz'Vi hhcbg":5b'UXX]h]cbU`di g\ Vi hhcb'bYl hhc'h\Y'@78'X]gd`Umi]g i gYX'hc'gWfc``'h\fci [\'h\Y'a cXi `Ygfa YhYf]b['X]gd`Umg"



### Instruments

9b[]bY gdYYX" C]`dfYggi fY" 7 cc`Ubhhya dyfUhi fy" Fib'ha Y" 6Uhhy fmj c`hg" 7 cb2][i fUV`Y`h]a ]b[" ; 9B9F5HCF Jc`hu[Y`f@l@z`@lBŁ" 7 i ffYbhf@%@&!@ Ł" : fYei YbWm A5₽G Jc`hU[Y`f@!@z@!BŁ" : fYei YbWm A U]bg fYUXm A U]bg`YbUV`YX" Yb" GYhfYUXm ; Yb"'GYhYbUV'YX"

## Options

: `YI ]V'Y gYbgcf WUb'VY WtbHc``YX k ]h\ HYa dYfUhi fYž dfYggi fYždYfWbHU[Y fk Ufb]b[ #g\ i hXck b#/`YWf]WD`Hf]dk @cWJ`gYHf]b[ 'dUfUa YHYfg'UbX'a cb]hcf]b[ 'Zfca 'D7 hc WtbHfc``a cXi `Y k ]h\ I G6 WtbbYWf]cb fa UI '\* 'a Hz"

#### Protection Circuits

K 5FB+B; 7\Uf[Y'ZU]`i fY" 6UhnYfm@ck # ][ \ 'j c'hU[ Y" : U) hc ghcd" I bXYf#cj Yf [ YbYfUhcf ZfYei YbWh'i Cj Yf'# bXYf'gdYYX" @ck 'c] 'dfYggi fY" < | \ \Wcc\UbhhYa dYfUh fY" G<I H'8CK BG : U] hc ghUfh 9a Yf[ YbWnghcd" @ck 'c] 'dfYggi fY" <][\ Wcc'UbhHYa dYfUhi fY" Cj Yf # bXYf gdYYX" I bXYf#cj Yf [ YbYfUhcf ZfYei YbWh'i I bXYf#cj Yf [YbYfUhcf j c`hU[Y" C]`dfYggi fY`gYbgcf`cdYb" 7 cc`Ubh'hYa dYfUhi fY'gYbgcf'cdYb" 9@97HF = 75@HF = D ; YbYfUhcficj YfiWi ffYbhi

#### Standards

9`YWf]WJ``GUZYhm#9A 7`Wta dUh]V]`]hm6G`9B`\*\$-)\$ 9`YWf]WJ``Vi g]bYgg``Yei ]da Ybh' 6G`9B`\*%\$\$!\*!&'9A 7`]a a i b]hmghUbXUfX" 6G`9B`\*%\$\$!\*!(`9A 7`Ya]gg]cb`ghUbXUfX

## Static Battery Charger



## AK 20 - Canopy



- 1 Steel structures
- 2 Emergency stop push button
- 3 Control panel is right side of the set.
- 4 Corrosion-resistant locks and hinges
- 5 Sump drains valves
- 6 Sound proof foam metarial
- 7 Base frame -tank

## 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.	960
Lenght	mm.	2100
Height	mm.	1370
Fuel Tank Capacity	L	70