



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 according to EU noise legislation 2000/14/EC

3 Phase Ratings, 60 Hz, PF 0,8

Voltage	Standby Rating (ESP)		Prime Rating (PRP)		
	kVA	kw	kVA	kw	Amp
480/277		184,00		168,00	253,00
380/220		182,00		165,00	313,00
208/120		182,00		165,00	573,00

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

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

ENGINE

- Electronic governor control
- 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

- Automatic synchronising and power control system (multi gen-set Parallel)
- 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
- 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
- Double wall chassis
- Supplied with oil and coolant - 30 °C
- Battery isolating switch
- Main Fuel Tank
- Automatic transfer switch

TRANSFER SWITCH

- Three Pole Contactor
- Four Pole Contactor

➤ DIESEL ENGINE SPECIFICATIONS

Manufacturer		John Deere	تولید کننده
Model		6068HF120	مدل
No. of Cylinders and Build		6 Cylinder, In Line	تعداد سیلندرها و نوع آرایش آنها
Aspiration and Cooling		Turbo Charged and Change Air Cooled	سیستم تنفس و خنک کاری
Maximum Standby Power		1800 rpm 200,00 kw[HP]	توان Standby
Total Displacement	L	6,800	جابه جایی کل
Bore and Stroke	mm	106 X 127	قطر سیلندر و کورس پیستون
Compression Ratio		17.0:1	نسبت تراکم
Rated Speed (rpm)	rpm	1800	سرعت مجاز
Governor		Mechanical	گاورنر
Oil Capacity	L	32,00	ظرفیت روغن
Coolant Capacity	L	36,50	ظرفیت خنک کننده
Intake Air Flow	m ³ /min.	14,80	جریان هوای مصرفی
Exhaust Gas Flow	m ³ /min.	40,30	جریان گاز خروجی از اگزوز
Exhaust Gas Temperature	° C	567,00	دمای گاز خروجی از اگزوز
Start System		12 V d.c.	استارت تر
Fuel Consumption	Load	%100 %75 %50	مصرف سوخت
	L/h	47,20 36,10 23,50	

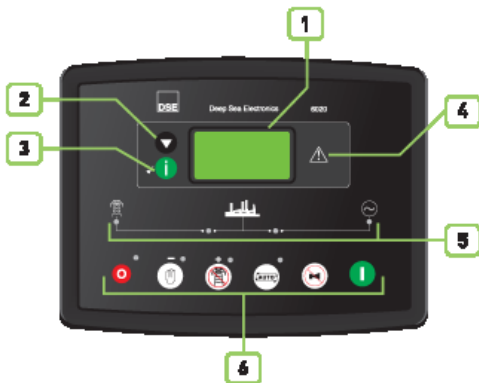
➤ ALTERNATOR SPECIFICATIONS

Make		Stamford	تولید کننده
Model		UCI 274H	مدل
Frequency	Hz	60	فرکانس
Power	kw	204,00	توان
Design		Brushless, 4 poles	طراحی
Cos Phi		0,80	کسینوس فی
Phase		3	فاز
Voltage	V	480/277	ولتاژ
Current	A	307,00	جریان
Insulation Class		H	کلاس عایق بندی
Temperature		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 182-6	1640,00	2489,00	1150,00	1557,00	380,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AK 50	2060	3400	1217	1938	380

1 P 602 - Control System



- 1 A U]b'gUhi g'X]gd`Um'
- 2 8]gd`UmgVfc`Vi hrcb"
- 3 DU[Yf]bZcfa UhcbEVi hrcb"
- 4 7 ca a cb U`Ufa `]bX]WUhcF"
- 5 GHUhi g`@98fg"
- 6 C dYfU]hcb'gY`YW]b[`Vi hrcbg"

2 Devices

8G9ža cXY`*\$\$5i hc'A U]bg: U]i fY Vēbhf`a cXi`Y"
6UHYfmVUf[Yf`]bdi h%, !&* (j c'hZci hdi h`&+Z`J`) `5`f&(j Ecf`% ž j c'h) 5`f&J Ł
9a Yf[YbVhghcd di g\`Vi hrcb`UbX`Z gYg Zcf Vēbhf` V]fV`Jhg"

3 Construction and Finish

7 ca dcbYb]g`]bgU`YX`]b`g`YYgh`Y`YbWcgi fY`D\cgd\UHY`WYa]W`ždfY!VēU]b[`cZghY`dfcj]XYg Vēffcg]cb
fYg]ghUbhgi fZ]W`Dc`mYgYfVēa dcm]Y`dck XYf hcdVēU]hZcfa g\`[\`[`cgg`UbX`Yi fYa Y`mXi fUV`Y`Z]b]g`"@cW`UV`Y
UbX`\]b[YX`dUbY`Xccf`dfcj]XYg`YUgmUWV`gg`hc`Vēa dcbYb]g"

4 Installation

7cbhf`dUbY`]g`a ci bHYX`cb`VUgYZUa Y`k`]h`ghY`ghUbX`"@cW]HYX`Uhi`Y`f[\`hg]XY`cZ`h`Y`[YbYfUhc`f`gYhfK` \Yb`nci
`cc`_`Uhi`Y`Y`Yb`GYH`Zca`5`HYfbUhc`fē

5 Generating Set Control Unit

H\Y`8G9`*\$\$`]g`U`ghUbXUfX Vēbhf`a cXi`Y`Zcfci f[YbYfUhc`f`gYhg`i d`hc`&\$\$_J`5`UbX`ih`Ug`VYYb`XYg][bYX`hc
ghUfhUbX`ghcd`X]YgY`UbX`[Ug[YbYfUhc`f`gYhg`H\Y`8G9`*\$\$`a cXi`Y`Ug`VYYb`XYg][bYX`hc`a cb]hcf[YbYfUhc`f
Z]ei YbWžj c`hZ`W`fYb]Yb[]bY`c`]`dfYggi fYžVēc`UbhiYa dYfUhi fY`fi bb]b[\`ci fg`UbX`VUHYfmj c`hg`A cXi`Y
a cb]hcf`h`Y`a U]bg`gi dd`mUbX`gk`]W`c`Yf`hc`h`Y`[YbYfUhc`f`k`Yb`h`Y`a U]bg`dck Yf`Z]`g`H\Y`8G9`*\$\$`Ugc
]bX]W]Yg`cdYfU]hcbU`ghUhi g`UbX`Z]i`hVēbX]hcbgž5i hca U]W`mgvi h]b[`Xck b`h`Y`Yb`GYhUbX`[]j`]b[`fi Y`Z]fghi d
Z]i`hVēbX]hcb`cZ`Yb`GYhZ]i`fY`H\Y`@78`X]gd`Um]bX]W]Yg`h`Y`Z]i`h`

Standard Specifications

A]WēdfcW`ggcf`Vēbhf`YX"
@78`X]gd`Uma U`Yg`]bZcfa Uhcb`YUgmhc`fYUX"
(!`]bYž*(!`% &d] Y`X]gd`Um'
5i hca U]W`mifUbgZ]fg`VYh`YYb`a U]bg`fi h]h`hc`UbX`[YbYfUhc`f`dck Yf`
A Ubi U`dfc[fUa a]b[`cb`ZcbhdUbY`"
I`gYf]Z]YbX`mgYhi d`UbX`Vi hrcb`Uhc`i`h`
F`Ya cHY`ghUfH`
9j`Ybh`c[[]b[`f] h`g\`ck]b[`XUHY`UbX`h`a`Y`
7cbhf`g`Ghcd`F`YgYh`A Ubi U`ž5i hczHYgh`GHUf`Vi hrcbg`5b`UXX]hcbU`di g\`Vi hrcb`bYi hrc`h`Y`@78`X]gd`Um]g
i`gYX`hc`gVēc`h`fci [\`h`Y`a cXi`Y`gfa YHYf]b[`X]gd`Umg"

```
9'YVWU'GUZIm#9A 7'Vta dUHV]]Im6G'9B *$-) $
9'YVWU'Vi glbYgg'Yei ]da YbH'
6G'9B *%$$$!*&9A 7 ]a a i b]mighUbXUfX"
6G'9B *%$$$!*(! 9A 7 Ya ]gg]cb gHUbXUfX
```

AK 50 - 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 material
- 7 Lifting Points

Introduction

Sound-attenuated and Weather-protective Enclosures Sound-attenuated and weather protective enclosures for generating sets from Abyaran, meet even 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-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.
- Abyaran makes its generating sets' noise level tests in accordance with directive 2000/14/EC validation of the noise level test has been approved by the notified body Szutest

Width	mm.	1217
Length	mm.	3400
Height	mm.	1938
Fuel Tank Capacity	L	380