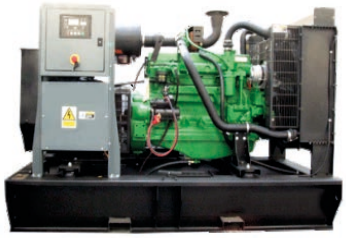

ISO8528	This generator set has been designed to meet ISO 8528 regulation.
SZUTEST	This generator set is manufactured in facilities certified to ISO 9001.
CE	This generator set is available with CE certification.
2000/14/EC	Enclosed product is tested according to EU noise legislation 2000/14/EC

3 Phase Ratings, 50 Hz, PF 0,8

	Standby Rating (ESP)		Prime Rating (PRP)		
Voltage	kVA	kW	kVA	kW	Amp
400/230	170,00	136,00	155,00	124,00	224,00

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.

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 Seperator Filter
- Low water level alarm
- Oil heater

ALTERNATOR

- Anti-Condensation Heater
- Over sized alternator
- Main line circuit breaker

CONTROL SYSTEM

- Remote annunciator panel
- Earth fault, single set
- Charge Ammeter

OTHER ACCESSORIES

- Automatic or manual fuel filling system
- Manual 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
- 1500/3000 hours maintenance kit
- Double wall chassis
- Supplied with oil and coolant - 30 °C
- Battery isolating switch
- Main Fuel Tank

TRANSFER SWITCH

- Three or four pole contactor
- Three or four pole motor operated circuit breaker

DIESEL ENGINE SPECIFICATIONS

Manufacturer		John Deere			تولید کننده
Model		6068 H			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
Maximum Standby Power		1500 rpm 155,00 kW [208,00HP]			توان Standby
Total Displacement	L	6,800			جابه جایی کل
Bore and Stroke	mm	106 X127			قطر سیلندر و کورس پیستون
Compression Ratio		17:1			نسبت تراکم
Rated Speed (rpm)	rpm	1500			سرعت مجاز
Governor		Mechanical			گاورنر
Oil Capacity	L	24,60			ظرفیت روغن
Coolant Capacity	L	36,50			ظرفیت خنک کننده
Intake Air Flow	m³ /min.	9,80			جریان هوای مصرفی
Radiator Cooling Air	m³ /min.	252,10			میزان هوای خنک کننده رادیاتور
Exhaust Gas Flow	m³ /min.	20,80			جریان گاز خروجی از اگزوز
Exhaust Gas Temperature	° C	600,00			دمای گاز خروجی از اگزوز
Start System		12 V d.c.			استارتر
Fuel Consumption	Load	%100	%75	%50	مصرف سوخت
	L/h	34,00	26,20	17,80	

ALTERNATOR SPECIFICATIONS

Make		Mecc Alte	تولید کننده
Model		ECP34 3L/4	مدل
Frequency	Hz	50	فرکانس
Power	kW	160,00	توان
Design		Brushless, 4 poles	طراحی
Cos Phi		0,80	کسینوس فی
Phase		3	فاز
Voltage	V	400/230	ولتاژ
Current	A	231,00	جریان
Insulation Class		H	کلاس عایق بندی
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 170	1510,00	2392,00	1150,00	1521,00	380,00
Canopy	Dry Weight	Lenght	Width	Height	Tank Capacity
	kg.	mm.	mm.	mm.	L
AK 50	1930	3400	1217	1938	380

P 602 - Control System

1 ●Main status display.
2 ●Display scroll button.
3 ●Page(information) button.
4 ●Common alarm indicator.
5 ●Status LED's.
6 ●Operation selecting buttons.

Devices

●DSE, model 6020 Auto Mains Failure control module.
●Battery charger input 198-264 volt , output 27,6 V 5 A (24 V) or 13,8 Volt 5A (12V)
●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 and hinged panel door provides easy access to components.

Installation

● Control panel is mounted on baseframe with steel stand. Located at the right side of the generator set (When you look at the Gen.Set. from Alternator)

Generating Set Control Unit

●The DSE 6020 is a standard control module for our generator sets up to 200kVA and ıt has been designed to start and stop diesel and gas generator sets. The DSE 6020 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 DSE6020 also indicates operational status and fault conditions, Automatically shutting down the Gen. Set and giving true first up fault condition of Gen. Set failure.The LCD display indicates the fault.

Standard Specifications

●Microprocessor controlled.
●LCD display makes information easy to read.
●4-line, 64 x 132 pixel display.
●Automatically transfers between mains (utilty) and generator power.
●Manual programming on front panel.
●User-friendly set-up and button layout.
●●Remote start.
●Event logging (5)showing date and time.
●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.
●Configurable timing.
GENERATOR
●Voltage (L-L, L-N).
●Current (L1-L2-L3).
●Frequency.
MAINS
●Voltage (L-L, L-N).
●Frequency.
●Mains ready.
●Mains enabled.
●Gen. Set ready.
●Gen. Set enabled.

Protection Circuits

WARNING
●Charge failure.
●Battery Low/High voltage.
●Fail to stop.
●Low /High generator voltage.
●Under/over generator frequency.
●Over /Under speed.
●Low oil pressure.
●High coolant temperature.
SHUT DOWNS
●Fail to start.
●Emergency stop.
●Low oil pressure.
●High coolant temperature.
●Over /Under speed.
●Under/over generator frequency.
●Under/over generator voltage.
●Oil pressure sensor open.
●Coolant temperature sensor open.
ELECTRICAL TRIP
●Generator over current.

Options

●Flexible sensor can be controlled with temperature, pressure, percentage (warning/shutdown/electrical trip)
●Local setting parameters and monitoring from PC to control module with USB connection (max 6 mt).

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

Static Battery Charger

● Battery charger is manufactured with switching-mode and SMD technology and ıt has high efficiency. Battery charger models' output V-I characteristic is very close to square and output is 5 amper, 13,8 V for 12 volt and 27,6 V for 24 V . Input 198 - 264 volt AC. Proline 2405 has fully output shot circuit protection and ıt can be used as a current source. Proline 1205/2405 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. Connect charge fail relay coil between positive output and CF output. They are equipped with RFI filter to reduce electrical noise radiated from the device. Galvanically isolated input and output typically 4kV for high reliability.

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 metarial
7. Lifting Points

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.	1217
Lenght	mm.	3400
Height	mm.	1938
Fuel Tank Capacity	L	380