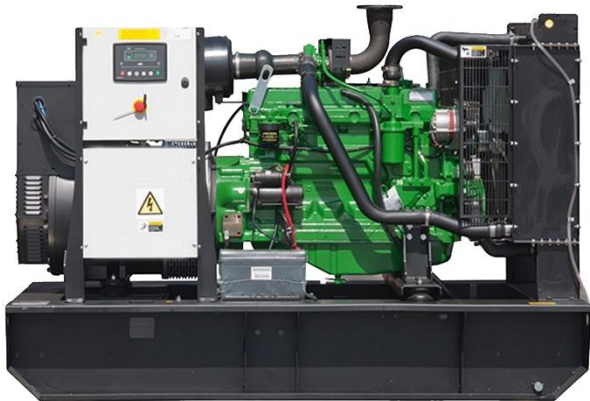




John Deere 170 kVA



General Characteristics

Model Name	15606
Frequency (Hz)	50
Fuel Type	Diesel
Engine Made and Model	JOHN DEERE 6068HF120
Alternator Made and Model	ECP 34-3L/4 A
Control Panel Model	6020
Canopy	AK 50

Power (kVA)

3 Phase, 50 Hz, PF 0.8

VOLTAGE	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kW	kVA	kW	kVA	
400/231	136.0	170	124.0	155	245.38

STANDBY RATING (ESP)(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)(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.

OPTIONAL EQUIPMENTS



John Deere 170 kVA

ENGINE

- Electronic governor control
- Fuel-Water Separator 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

TRANSFER SWITCH

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

OTHER ACCESSORIES

- Main Fuel Tank
- Automatic or manual fuel filling system
- Manual oil drain pump
- Low and high fuel level alarm
- Residential silencer
- Enclosure: weather protective or sound attenuated
- Duct adapter (on radiator)
- Inlet and outlet motorized 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

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

ALTERNATOR CHARACTERISTICS

GENERAL DATA

Manufacturer	Mecc Alte
Alternator Made and Model	ECP 34-3L/4 A
Frequency (Hz)	50
Power (kVA)	160



John Deere 170 kVA

VOLTAGE (V)	400
Phase	3
A.V.R.	DSR
Voltage Regulation	(+/-)1%
Insulation System	H
Rated Power Factor	0.8
WEIGHT WOUND ROTOR (Kg)	111
COOLING AIR	19.3

ENGINE SPECIFICATIONS

Engine	JOHN DEERE
Engine Model	6068HF120
Number of Cylinder (L)	6 cylinders - in line
Bore	106
Stroke	127
Displacement	6,8
Aspiration	Turbo Charged and After Cooled
Compression Ratio	17.0:1
RPM (d/dk)	1500
Oil Capacity (Total With Filter) (lt)	23.9
Stand by Power kwm/hp (gross)	155/208
Prime Power kwm/hp (gross)	140/188
Block Heater QTY	1
Block Heater Power (Watt)	1500
Fuel Type	Diesel
Injection Type and System	Direct
Type of Fuel Pump	Stanadyne DB4 Rotary Type
Governor System	Mechanic
Operating Voltage (Vdc)	12 Vdc
Battery and Capacity (Qty/Ah)	1x85
Cooling Method	Water Cooled
Cooling Fan Air Flow (m3/min)	252.1
Coolant Capacity (engine only / with radiator) (lt)	11.3/36.5
Air Filter	Dry Type
Fuel Cons. Prime With %100 Load (lt/hr)	28.8
Fuel Cons. Prime With %75 Load (lt/hr)	22.3
Fuel Cons. Prime With %50 Load (lt/hr)	15.1

Open Gen.Set Dimensions (mm)

LENGHT	2400
WIDTH	1150



John Deere 170 kVA

HEIGHT	1560
DRY WEIGHT	1540
TANK CAPACITY	380

Gen.Set Canopy Dimensions (mm)

LENGTH	3400
WIDTH	1220
HEIGHT	1940
DRY WEIGHT	1930
TANK CAPACITY	380

INTRODUCTION

Sound-attenuated and Weather-protective Enclosures Sound-attenuated and weather protective enclosures for generating sets from us, 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

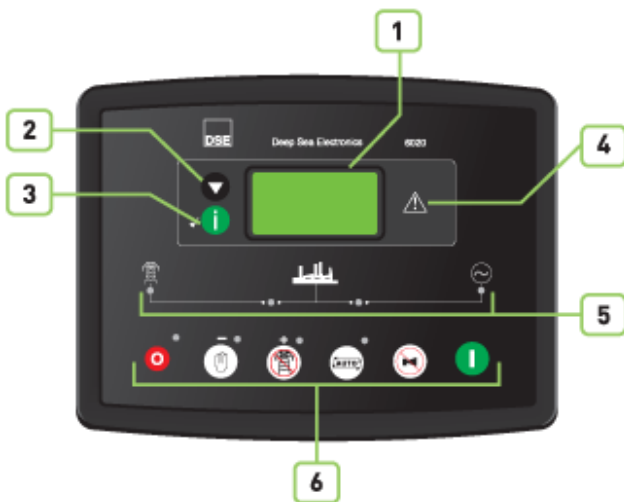
Compact footprint, low profile design.
Enclosure, generator set, exhaust system and fuel tank are pre-assembled, pre-integrated and shipped as one package
Body made from steel components treated with polyester powder coating
Fire retardant foam insulation
Easy access to all service points
Exhaust system 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.
We make our 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

Control Panel

Control Module	DSE
Control Module Model	6020

Communication Ports

MODBUS



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 it 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 (utility) 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.

INSTALLATION

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

Electrical 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 it 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 short circuit protection and it 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.

FACTORY CERTIFICATES

TS ISO 8528

TS ISO 9001-2008

CE

SZUTEST

2000/14/EC