Power (kVA)

3 Phase,60 Hz, PF 0.8

Voltage	STANDBY RATING (ESP)		PRIME RATING (PRP)		Standby Amper
	kW	kVA	kW	kVA	
380/220	27,00	33,75	24,00	30,00	51,28
208/120	28,00	35,00	24,00	30,00	97,15
480/277	28,00	35,00	25,00	31,25	97,15

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 8528-1. Overload is not allowed.

PRIME RATING (PRP) Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528-1. 10 % overload capability is available for a period of 1 hour within 12-hour perod of operation.

General Characteristics

Model Name	AJD 28-6
Frequency (Hz)	60
Fuel Type	Diesel
Engine Made and Model	JOHN DEERE 3029 DF 128 - 60Hz
Alternator Made and Model	PI 144 G - 60Hz
Control Panel Model	DSE 6020
Canopy	AK 20

ENGINE SPECIFICATIONS

Engine	JOHN DEERE
Engine Model	3029 DF 128 - 60Hz
Number of Cylinder (L)	3 cylinders - in line
Bore (mm.)	106
Stroke (mm.)	110
Displacement (lt.)	2.9
Aspiration	Naturally Aspirated
Compression Ratio	17.2:1
RPM (d/dk)	1800
Oil Capacity (Total With Filter) (lt)	5
Standby Power (kW/HP)	40/53.6
Block Heater QTY	1
Block Heater Power (Watt)	500
Fuel Type	Diesel
Injection Type and System	Direct
Type of Fuel Pump	Stanadyne DB2 Rotary Type
Governor System	Mechanic
Operating Voltage (Vdc)	12 Vdc

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Battery and Capacity (Qty/Ah)	1x55
Cooling Method	Water Cooled
Coolant Capacity (engine only / with radiator) (lt)	5.7/15.50
Air Filter	Dry Type
Fuel Cons. Prime With %100 Load (lt/hr)	7.9
Fuel Cons. Prime With %75 Load (lt/hr)	6.35
Fuel Cons. Prime With %50 Load (lt/hr)	4.47

ALTERNATOR CHARACTERISTICS

Manufacturer	Stamford
Alternator Made and Model	PI 144 G - 60Hz
Frequency (Hz)	60
Power (kVA)	30
Voltage (V)	380
Phase	3
A.V.R.	AS480
Voltage Regulation	(+/-)1%
Insulation System	H
Rated Power Factor	0.8
WEIGHT COMP. GENERATOR (Kg)	160
COOLING AIR (m³/min)	7,3

Open Gen.Set Dimensions (mm)

LENGTH	1490
WIDTH	900
HEIGHT	1123
DRY WEIGHT (kg.)	720
TANK CAPACITY (lt.)	70

Gen.Set Canopy Dimensions (mm)

LENGTH	2101
WIDTH	956
HEIGHT	1482
DRY WEIGHT (kg.)	900
TANK CAPACITY (lt.)	70

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

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sets from Aksa, 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.

Control Panel

Control Module	DSE
Control Module Model	DSE 6020

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

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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.

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.

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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.

STANDARD SPECIFICATIONS

- No Data

OPTIONAL EQUIPMENTS

No Data

AKSA CERTIFICATES

- TS ISO 8528
- CE
- SZUTEST
- 2000/14/EC

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