



INTRODUCTION

Aksa power generation system, providing optimum performance, and reliability, for stationary standby, prime power, and continuous duty applications. All generator sets are factory built, and production tested.

POWER				:	3 Phase,50 Hz, PF 0.8
VOLTAGE (V)	STANDBY RATING (ESP)		PRIME RATING (PRP)		STANDBY
	kW	kVA	kW	kVA	CURRENT (A)
400/231	52.80	66.00	48.00	60.00	95.27

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 period of operation.

GENERAL CHARACTERISTICS

Model Name	AJD 66-V
Frequency (Hz)	50
Fuel Type	Diesel
Engine Make and Model	John Deere 3029HG530 G
Alternator Make and Model	Mecc Alte ECP32-2M/4 C
Control Panel Model	ComAp InteliLite AMF 25
Canopy (Colour)	EUROKA20 (RAL-1015)

ENGINE SPECIFICATIONS

General Data	
Manufacturer	John Deere
Engine Model	3029HG530 G
Number of Cylinders	3 cylinders - in line
Bore (mm.)	107
Stroke (mm.)	110
Displacement (lt.)	2.9
Compression Ratio	16.9:1
Engine Speed (rpm)	1500

AKSA POWER GENERATION

55/74 50/67
50/67
1
500
Eletronic
Dry Туре
8
135
Diesel
L23 Controller
Denso HP3
12
1x55
Turbo Charged and Air to Air AfterCooled
Water Cooled
5
5
0
11.4
11.4
11.4 3.6
11.4 3.6 541
11.4 3.6
11.4 3.6 541
11.4 3.6 541 TBD
11.4 3.6 541 TBD -
11.4 3.6 541 TBD - 125
11.4 3.6 541 TBD - 125 13.42
11.4 3.6 541 TBD - 125

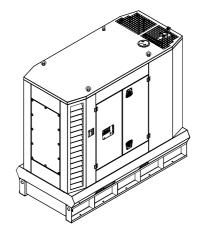
ALTERNATOR CHARACTERISTICS

AKSA POWER GENERATION

Manufacturer	Mecc Alte
Alternator Model	ECP32-2M/4 C
Frequency (Hz)	50
Power (kVA)	62.5
Voltage (V)	400
Phase	3
Regulator	DSR
Voltage Regulation	(+/-)1%
Insulation System	н
Protection	IP23
Rated Power Factor	0.8
Weight Complete Generator (kg)	212
Temperature Rise	Н

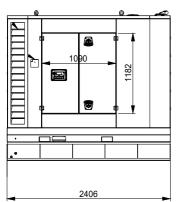
CANOPY SPECIFICATIONS

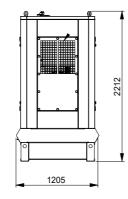
Length (mm)	2406
Width (mm)	1205
Height (mm)	2212
Dry Weight (kg.)	1425
Tank Capacity (It.)	160

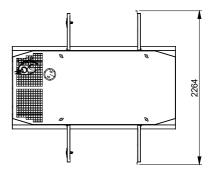


- Steel structures

- Emergency stop push buttons on each side
- Corrosion resistant locks and hinges
- Sump drains valves
- Sound proof foam metarial
- Lifting Points
- Double Wall Fuel Tank
- Forklift Pockets
- Overflow Pan with Overflow Sensor
- Metal Air Inlet Louvres
- Grounding connection bolt







CONTROL PANEL

AKSA POWER GENERATION

Manufacturer	ComAp
Control Module Model	InteliLite AMF 25
Communication Ports	CANBUS



- MODE \rightarrow Cyclic forward selection the gen-set operation mode (OFF \rightarrow MAN \rightarrow AUT \rightarrow TEST)
- \leftarrow MODE Cyclic backward selection the gen-set operation mode (TEST \rightarrow AUT \rightarrow MAN \rightarrow OFF)
- HORN RESET Deactivates the HORN
- FAULT RESET Acknowledges faults and alarms
- START Start of the gen-set
- STOP Stop of the gen-set
- MCB ON/OFF Manual open/close of the Mains circuit breaker
- GCB ON/OFF Manual open/close of the Generator circuit breaker
- PAGE Cyclic selection of the display mode(MEASUREMENT->ADJUSTEMENT)
- Select the set point, select the screen or increase set point value
- Select the set point, select the screen or decrease set point value
- ENTER Confirm set point value

Standard Devices

- ComAp InteliLite AMF 25, control module
- Static battery charger with battery switch
- Emergency stop push button and fuses for control circuits

Control Unit

- Single Gen-set controller for Stand-by and Primepower applications
- Direct communication with EFI engines
- Total remote monitoring and control via 5G

Features

- 5 languages in the controller & translator functionality
- 3 levels of password
- 3 sets of alternative configurations
- Magnetic pickup
- ECU support & Tier 4 Final ready
- STAGE V support
- Cloud-based monitoring and control via WebSupervisor
- Geo-Fencing and tracking via WebSupervisor
- Plug-in module concept for more capabilities (RS232, RS485, Ethernet, GPRS, 4G/LTE, Modbus, SNMP, emails, SMS, I/Os)

- 2 slots for plug-in modules
- CAN modules support
- Power over USB for controller's adjustment
- In-built PLC, complemented with a monitoring/debugging tool
- 8 binary outputs, 8 binary inputs, 4 analog inputs
- 2 high-current binary outputs
- Run Hours source selector
- Activation of outputs based on inputs/power/temperature
- Real time clock
- Multipurpose flexible timers (also for rental)

- Comprehensive history log with up to 350 events
- Dual Application: control of Genset, transfer switch and alternation
- 3 maintenance timers (counting even under zero)
- Possibility to disable protections
- Modbus register mapping possibility
- Adjustable Main Screen
- A version for low temperature is also available

Certification and Standards

- EN 61000-6-2
- EN 61000-6-4
- EN 61010-1
- EN 60068-2-1 (-20 °C/16 h for std, -40 °C/16 h for LT version)
- EN 60068-2-2 (70 °C/16 h)

- EN 60068-2-6 (2÷25 Hz / ±1,6 mm; 25÷100 Hz / 4.0 g)
- EN 60068-2-27 (a=500 m/s²; T=6 ms)
- EN 60068-2-30:2005 25/55°C, RH 95%, 48hours
- EN 60529 (front panel IP65, back side IP20)
- UL 6200



Static Battery Charger

AKSA POWER GENERATION

- 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.
- 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 EQUIPMENT

- Water cooled, Diesel engine
- Mounted radiator with mechanical fan drive
- Protective grille for rotating and hot parts
- Electric starter and charge alternator
- Lead acid starting battery (with battery switch) including rack and cables
- Engine coolant heater
- Double wall fuel tank with overflow sensor
- Fuel water seperator filter
- Anti-vibration isolators between components and chasis
- Aftertreatment System
- Exhaust Temperature Management system
- External fuel filter opening
- Flexible fuel connection hoses
- Industrial exhaust silencer
- Single bearing, class H alternator with Anti-condensation Heater
- Low water level and fuel level alarms
- Static battery charger and battery switch
- Non-ferro plate for anlternator and panel side
- Manual for application and installation
- Generators Sets' voltage and frequency regulation comply with ISO 8528-5

OPTIONAL EQUIPMENT

Engine

- Fuel-Water Separator Filter
- Oil heater

Alternator

- Over sized alternator
- Main line circuit breaker

Canopy

- ISO Container
- Galvanized Coating
- Marine Grade Paint

Transfer Switch

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

Auxiliary Equipment

- Automatic or manual fuel filling system
- Manual oil drain pump
- Electrical oil drain pump
- Low and high fuel level alarm
- Inlet and outlet motorized louvers
- Inlet and outlet acoustic baffles
- Tool kit for maintenance
- 1500/3000 hours maintenance kit
- Supplied with oil and coolant 30 °C



Control System

AKSA POWER GENERATION

- Automatic synchronising and power control system (Multi gen-set Parallel)

: Machinery Safety Directive - 2004/108/EC : Electromagnetic Compatibility Directive : Low Voltage Directive

- Parallel system with mains.
- Transition synchronization with mains
- Remote relay output
- Alarm output relays
- Remote communication with modem
- Earth fault, single set
- Charge Ammeter

- 2006/42/EC

- 2006/95/EC

AKSA CERTIFICATES

Directives

Optional Alternator and Control Panel Models

- Please contact to your reseller for additional Alternator, Control Panel and Breaker Switch options.

Standards	
- EN ISO 12100-1:2010	: Safety of machinery -Basic concepts, general principles for design - Risk Assessment and Risk Reduction
- EN ISO 3744:2010	: Acoustics. Determination of sound power levels of noise sources using sound pressure. Engineering method in an essentially free field over a reflecting plane
- EN 60204-1:2018	: Safety of machinery-Electrical equipment of machines General Requirements
- EN ISO 8528-13:2016	: Reciprocating internal combustion engine-driven alternating current generating sets- Part:13: Safety
- BS EN 61000-4-2:2009	: Electromagnetic compatibility (EMC). Testing and Measurement Techniques-Electrostatic Discharge Immunity Test
- BS EN 61000-4-6	: Electromagnetic Compatibility (EMC). Testing and Measurement Techniques-Immunity to Conducted Disturbance Induced by Radio - Frequency Fields
- EN 614-1:2006+A1(2009)	: Safety of machinery - Ergonomic design principles - Part 1: Terminology and general principles