





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	176.00	220.00	160.00	200.00	317.54

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 220-V
Frequency (Hz)	50
Fuel Type	Diesel
Engine Make and Model	John Deere 6068CG550 C
Alternator Make and Model	Mecc Alte ECO38-2S/4 C
Control Panel Model	ComAp InteliLite AMF 25
Canopy (Colour)	AJD220V Canopy (RAL-1015)

ENGINE SPECIFICATIONS

General Data	
Manufacturer	John Deere
Engine Model	6068CG550 C
Number of Cylinders	6 cylinders - in line
Bore (mm.)	106
Stroke (mm.)	127
Displacement (lt.)	6.8
Compression Ratio	16.7:1
Engine Speed (rpm)	1500





Standby Power (kW/HP)	202/271
Prime Power (kW/HP)	184/246
Block Heater QTY	1
Block Heater Power (Watt)	1500
Governor System	Eletronic
Air Filter	Dry Type
Lubrication System	
Oil Capacity (Total With Filter) (It)	-
Max. Oil Temperature (°C)	138
Fuel System	
Fuel Type	Diesel
Injection Type and System	L33 Controller
Type of Fuel Pump	Denso HP6
Electrical System	
Operating Voltage (Vdc)	12
Battery and Capacity (Qty/Ah)	1x85
Charge Alternator (A)	-
Cooling System Aspiration	Turbo Charged and Air to Air AfterCooled
Cooling Method	Water Cooled
Coolant Capacity (engine only) (It)	11.9
Coolant Capacity (engine only) (it)	11.5
Exhaust System	
Exhaust Gas Flow (m³/min.)	25.5
Exhaust Back Pressure (kPa)	5.6
Exhaust Gas Temp. (°C)	464
Radiator	
Total Coolant Capacity (It)	TBD
Cooling Fan Air Flow (m³/min.)	-
External Restriction to Cooling Airflow (Pa)	125
Fuel Consumption	
Fuel Cons. Prime With %100 Load (lt/hr)	43.4
Fuel Cons. Prime With %75 Load (lt/hr)	32.2
Fuel Cons. Prime With %50 Load (It/hr)	22.2



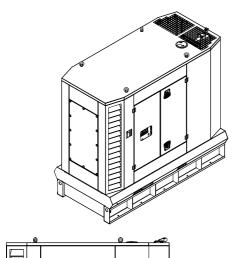


ALTERNATOR CHARACTERISTICS

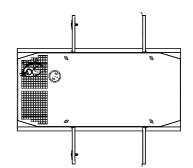
Manufacturer	Mecc Alte
Alternator Model	ECO38-2S/4 C
Frequency (Hz)	50
Power (kVA)	200
Voltage (V)	400
Phase	3
Regulator	DSR
Voltage Regulation	(+/-)1%
Insulation System	Н
Protection	IP23
Rated Power Factor	0.8
Weight Complete Generator (kg)	550
Temperature Rise	Н

CANOPY SPECIFICATIONS

Length (mm)	On-demand
Width (mm)	On-demand
Height (mm)	On-demand
Dry Weight (kg.)	On-demand
Tank Capacity (It.)	On-demand



- 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

Manufacturer	ComAp
Control Module Model	InteliLite AMF 25
Communication Ports	CANBUS



- MODE→ Cyclic forward selection the gen-set operation mode (OFF →MAN →AUT→TEST)
- ←MODE Cyclic backward selection the gen-set operation mode (TEST →AUT→MAN →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

- 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

- Automatic synchronising and power control system (Multi gen-set Parallel)
- Parallel system with mains.
- Transition synchronization with mains
- Remote relay output
- Alarm output relays
- Remote communication with modem
- Earth fault, single set
- Charge Ammeter

Optional Alternator and Control Panel Models

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

AKSA CERTIFICATES

Directives

- 2006/42/EC : Machinery Safety Directive

- 2004/108/EC : Electromagnetic Compatibility Directive

- 2006/95/EC : Low Voltage Directive

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