



Introduction

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

Power

3 Phase, 60 Hz, PF 0.8

Voltage (V)	STANDBY RATING (ESP)		PRIME RATING (PRP)		STANDBY CURRENT (A)
	kW	kVA	kW	kVA	
380 / 220	26.4	33	23.20	29	50
480 / 277	28.0	35	28.00	35	42
208 / 120	28.0	35	25.60	32	97

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 35-6
Frequency (Hz)	60
Fuel Type	Diesel
Engine Make and Model	John Deere 3029TFG20
Alternator Make and Model	Mecc Alte ECP 32-1L/4 C 60 Hz
Canopy	AK 20
Noise Level @1m , @7m (dB(A))	80,9 / 71.5

Engine Specifications

General Data

Manufacturer	John Deere
Engine Model	3029TFG20
Number of Cylinders / Type	3 cylinders - in line



Bore mm (in)	106
Stroke mm (in)	110
Displacement l (cu. In)	2.9
Compression Ratio	17.2:1
Engine Speed (rpm)	1500
Standby Power (kW/hp)	42/56
Prime Power (kW/hp)	39/52
Block Heater (QTY)	1
Block Heater Power (Watt)	500
Governor System	Mechanic
Air Filter	Dry Type
Aspiration	Turbo Charged

Lubrication System

Oil Capacity l (gal)	8
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Fuel System

Fuel Type	Diesel
Injection Type	Direct Injection
Type of Fuel Pump	Delphi DP100G

Electrical System

Operating Voltage (Vdc)	12 Vdc
Battery and Capacity (Qty/Ah)	1x55

Cooling System

Cooling Method	Water Cooled
Coolant Capacity (engine only) l (gal)	6

Exhaust System

Exhaust Gas Flow (m³/min)	7.3
Exhaust Back Pressure in-Hg (kPa)	7.5
Exhaust Gas Temperature °C (F)	414

Radiator

Total Coolant Capacity (l)	19.2
Cooling Fan Air Flow m³/min (ft³/min)	59.1
External Restriction to Cooling Airflow (Pa)	125

Fuel Consumption



Fuel Cons. @100% Prime Load l/h (kg/h)	9,96
Fuel Cons. @75% Prime Load l/h (kg/h)	7.62
Fuel Cons. @50% Prime Load l/h (kg/h)	5.27

Alternator Characteristics

Manufacturer	Mecc Alte
Alternator Model	ECP 32-1L/4 C 60 Hz
Frequency (Hz)	60
Power (kVA)	90
Voltage (V)	480
Phase	3
A.V.R.	DSR
Voltage Regulation	1
Insulation Class	H
Protection Class	IP23
Rated Power Factor	0,8
Weight Complete Generator (kg)	252
Temperature Rise Class	125/40
Cooling Air (m ³ /min)	18,5

Open Generator Set Dimensions

Length mm	1490
Width mm	900
Height mm	1212
Open Gen.Set Gross Weight Dry kg	735
Full Tank Capacity (l)	70

Canopy Characteristics

Length mm	2101
Width mm	956
Height mm	1482
Dry Weight kg	915
Full Tank Capacity (l)	70

Control Panel



Standard Equipment

- 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 Equipment

Engine

Alternator



- Fuel-Water Separator Filter
- Oil heater

- Anti-Condensation Heater
- Over sized alternator
- PMG excitation + AVR
- Main line circuit breaker

Control Panel

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

Transfer Panel

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

Auxiliary Equipment

- Main Fuel Tank
- Automatic or manual fuel filling system
- Electrical or manual 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)

Exhaust

- Residential Silencer
- Silencer Spark Arrester
- Critical Silencer
- Catalytic Converter

Canopy

- Galvanized Coating
- ISO Container
- Marine Grade Paint

Optional Alternator and Control Panel

Please contact your dealer for additional Alternator, Control Panel and Circuit Breaker Switch options.

Aksa Certificates

Directive

- 2006/42/EC : Machinery Safety Directive
- 2014/30/EU : Electromagnetic Compatibility Directive
- 2014/35/EU : Low Voltage Directive

Standarts

- TS ISO 8528-5:2022 / TS EN ISO 8528-13:2018 : Reciprocating internal combustion engine-driven alternating current generating sets- Part:13: Safety

Quality Management Systems

ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
ISO 50001:2018
ISO 27001:2013



ISO 10002:2018