

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,50 Hz, PF 0.8

Voltage (V)	STANDBY RATING (ESP)		HeaderContinousRating		STANDBY CURRENT (A)
	kW	kVA	kW	kVA	
400 / 231	64.0	80			115

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	APG 80
Frequency (Hz)	50
Fuel Type	Natural Gas
Engine Make and Model	PSI 5.7LT CAC_ APG 80
Alternator Make and Model	Mecc Alte ECP 32-1L/4 C
Canopy	AUL5

Engine Specifications

General Data

Manufacturer	PSI
Engine Model	5.7LT CAC_ APG 80
Number of Cylinders / Type	8 cylinders - V type
Bore mm (in)	101,6 (4)
Stroke mm (in)	88,4 (3.48)
Displacement l (cu. In)	5,7 (350)

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Compression Ratio	9.4:1
Engine Speed (rpm)	1500
Standby Power (kW/hp)	100 (134,1)
Block Heater (QTY)	1
Block Heater Power (Watt)	750
Governor System	ECU
Air Filter	Dry Type
Aspiration	Turbo Charged

Lubrication System

Oil Capacity l (qal)	4,7 (1,24)
Max. Oil Temperature ºC (F)	121 (250)

Fuel System

Fuel Type	Natural Gas
Injection Type	Spark-Ignited
Type of Fuel Pump	-

Electrical System

Operating Voltage (Vdc)	12 Vdc
Battery and Capacity (Qty/Ah)	1 / 66

Cooling System

Cooling Method	Water Cooled
Coolant Capacity (engine only) l (gal)	7,8 (2,1)

Exhaust System

Exhaust Gas Flow (m³/min)	20,2

Fuel Consumption

Fuel Cons. @100% Prime Load m3/h (kg/h)	31,4 (22,5)

Alternator Characteristics

Manufacturer	Mecc Alte
Alternator Model	ECP 32-1L/4 C
Frequency (Hz)	50
Power (kVA)	75
Voltage (V)	400

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Phase	3
A.V.R.	DSR
Voltage Regulation	1
Insulation Class	H
Protection Class	IP23
Rated Power Factor	0.8
Weight Complete Generator (kg)	244
Temperature Rise Class	H
Cooling Air (m³/min)	15.7

Open Generator Set Dımensıons

Length mm (ft)	2950 (9,7)
Width mm	1163 (3,8)
Height mm (ft)	1682 (5,5)

Canopy Characteristics

Length mm (ft)	2950 (117)
Width mm (ft)	1129 (45)
Height mm (ft)	1485 (59)

Control Panel

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Standard Equipment

- Water cooled, gas 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 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

Aksa Certificates

Directive

- 2006/42/EC : Machinery Safety Directive
- 2004/108/EC : Electromagnetic Compatibility Directive
- 2006/95/EC : Low Voltage Directive

Standarts

- EN ISO 8528-13:2016 : Reciprocating internal combustion engine-driven alternating current generating sets- Part:13: Safety

- Max load and overload ratings based on ISO 3046 gross flywheel power.
- Technical data based on ISO 3046-1 standards of 77°F(25°C), 14,5Psia (100kPa) and 30% relative humidity.
- Production tolerances in engines and installed components can account for power variations of ± 5%. Altitude, temperature and excessive exhaust and intake restrictions should be applied to power calculations.

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- All fuel and thermal calculations unless otherwise noted are done at ISO 3046 rated load using LHV for NG of 48,17 MJ/kg.
- At 0,5 in-H2O of Package Restriction at STP
-Volume calculated using density of 0,717 kg/m3 for NG and 0,51 kg/L for LPG

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