## 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.

## Certificate

ISO 14001-2004

TS ISO 8528

TS ISO 9001-2008

CE

SZUTEST

2000/14/EC

## General Characteristics

| | |
|---|---|
| **Model Name** | AP 1900-6 |
| **Frequency (Hz)** | 60 |
| **Fuel Type** | Diesel |
| **Engine Made and Model** | PERKINS - 4012-46TAG3A - 60Hz |
| **Alternator Made and Model** | Mecc Alte - ECO 46-2S/4 A (380V) - 60Hz |
| **Control Panel Model** | DSE 7320 |

Производитель сохраняет за собой право без предварительного уведомления делать изменения в моделях, технических характеристиках, цветах, оборудовании, аксессуарах и чертежах.

| | |
|---|---|
| **Canopy** | AK 99-AP1875 |

## 3 Phase, 50 Hz, PF 0.8

| VOLTAGE | STANDBY RATING (ESP) | | PRIME RATING (PRP) | | Standby Amper |
|---|---|---|---|---|---|
| | kVA | kW | kVA | kW | |
| 480/277 | 1900 | 1520.00 | 1740 | 1392.00 | 2285.41 |
| 380/220 | 1890 | 1512.00 | 1720 | 1376.00 | 2871.64 |

**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.

## ENGINE SPECIFICATIONS

| | | |
|---|---|---|
| **Engine** | | PERKINS |
| **Engine Model** | | 4012-46TAG3A - 60Hz |
| **NO. OF CYLINDERS AND BUILD** | | 12 cylinders - V type |
| **BORE AND STROKE** | **mm** | 160 X 190 |

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| | | |
|---|---|---|
| **TOTAL DISPLACEMENT** | **L** | 45.842 |
| **Aspiration** | | Turbo Charged |
| **COMPRESSION RATIO** | | 13.0:1 |
| **RATED SPEED (RPM)** | **d/dk** | 1800 |
| **OIL CAPACITY** | **L** | 177 |
| **Standby Power (kW/HP)** | | 1643/2203 |
| **Prime Power** | | 1500/2011 |
| **Block Heater QTY** | | 2 |
| **Block Heater Power (Watt)** | | 3000 |
| **Fuel Type** | | Diesel |
| **Injection Type and System** | | Direct |

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| | | |
|---|---|---|
| **Type of Fuel Pump** | | Mechanical |
| **Governor System** | | Electronic |
| **Operating Voltage (Vdc)** | | 24 Vdc |
| **Battery and Capacity (Qty/Ah)** | | 4x143 |
| **Charge Alternator (A)** | | 40 |
| **Cooling Method** | | Water Cooled |
| **Cooling Fan Air Flow (m3/min)** | | 2160 |
| **Coolant Capacity (engine only / with radiator) (lt)** | | 225 |

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| | | | |
|---|---|---|---|
| **Air Filter** | | | Dry Type |
| **Fuel Cons. Prime With %100 Load (lt/hr)** | | | 356 |
| **Fuel Cons. Prime With %75 Load (lt/hr)** | | | 277 |
| **Fuel Cons. Prime With %50 Load (lt/hr)** | | | 185 |

## ALTERNATOR SPECIFICATIONS

| | | |
|---|---|---|
| **Manufacturer** | | Mecc Alte |
| **Alternator Made and Model** | | ECO 46-2S/4 A (380V) - 60Hz |
| **Frequency (Hz)** | **Hz** | 60 |
| **Power (kVA)** | **kVA** | 1480 |
| **DESIGN** | | Brushless |
| **VOLTAGE** | **V** | 380 |

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| | | |
|---|---|---|
| **Phase** | | 3 |
| **A.V.R.** | | DER1 |
| **Voltage Regulation** | **(+/-)** | 0.5 |
| **Insulation System** | | H |
| **Protection** | | IP23 |
| **Rated Power Factor** | | 0.8 |
| **WEIGHT COMP. GENERATOR (Kg)** | | 3565 |
| **COOLING AIR ($m^3$/min)** | **$m^3$** | 162 |

## SIZE and WEIGHT

| Open Type | DRY WEIGHT (kg.) (kg.) | LENGTH (mm.) | WIDTH (mm.) | HEIGHT (mm.) | TANK CAPACITY (lt.) (Lt.) |
|---|---|---|---|---|---|
| Image not found or type unknown | | 5816 | 2220 | 2787 | 2000 |
| **CANOPY** | **DRY WEIGHT (kg.) (kg.)** | **LENGTH (mm.)** | **WIDTH (mm.)** | **HEIGHT (mm.)** | **TANK CAPACITY (lt.) (Lt.)** |

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| | | | | | |
|---|---|---|---|---|---|
| AK 99-AP1875<br>Image not found or type unknown | | 900 | 2800 | 3456 | 2200 |

## STANDART SPECIFICATIONS

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
Steel base frame and anti-vibration isolators
Spare external fuel tank (open set)
Flexible fuel connection hoses
Single bearing, class H alternator
Industrial exhaust silencer and steel bellows supplied separately
Static battery charger
Manual for application and installation

## OPTIONAL EQUIPMENTS

ENGINE
• Remote Radiator Cooling
• Fuel-Water Seperator Filter
• Oil heater
ALTERNATOR
• Anti-Condensation Heater
• Over sized alternator
• Main line circuit breaker
CONTROL SYSTEM
• Automatic synchronising and power control system ( multi gen-set Parallel )
• Transition synchronization with mains
• Remote annunciator panel
• Remote relay output
• Alarm output relays
• Remote communication with modem

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- Earth fault, single set
- Charge Ammeter

TRANSFER SWITCH

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

OTHER ACCESSORIES

- Main Fuel Tank
- Automatic or manual fuel filling system
- Manual oil drain pump
- Electrical oil drain pump
- Low and high fuel level alarm
- Residential silencer
- Enclosure: weater protective or sound attenuated
- Duct adapter ( on radiator)
- Inlet and outlet motorised louvers
- Inlet and outlet acoustic baffles
- Tool kit for maintenance
- 1500/3000 hours maintenance kit
- Supplied with oil and coolant - 30 °C

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