## 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

TS ISO 8528

TS ISO 9001-2008

CE

SZUTEST

2000/14/EC

### General Characteristics

| | |
|---|---|
| **Model Name** | AD 710 |
| **Frequency (Hz)** | 50 |
| **Fuel Type** | Diesel |
| **Engine Made and Model** | HYUNDAI - DP180LB |
| **Alternator Made and Model** | Aksa - AK 6520 |
| **Control Panel Model** | DSE 7320 |
| **Canopy** | MS 80 TRP |

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

## 3 Phase, 50 Hz, PF 0.8

| VOLTAGE | STANDBY RATING (ESP) | | PRIME RATING (PRP) | | Standby Amper |
|---|---|---|---|---|---|
| | kVA | kW | kVA | kW | |
| 400/231 | 710 | 568.0 | 640 | 512.0 | 1024.83 |

**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** | | HYUNDAI |
| **Engine Model** | | DP180LB |
| **NO. OF CYLINDERS AND BUILD** | | 10 cylinders - V type |
| **BORE AND STROKE** | **mm** | 128 X 142 |
| **TOTAL DISPLACEMENT** | **L** | 18.273 |
| **Aspiration** | | Turbo Charged and Intercooled (Air to Air) |

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| | | |
|---|---|---|
| **COMPRESSION RATIO** | | 15.0:1 |
| **RATED SPEED (RPM)** | **d/dk** | 1500 |
| **OIL CAPACITY** | **L** | 34 |
| **Standby Power (kW/HP)** | | 612/832 |
| **Prime Power** | | 556/756 |
| **Block Heater QTY** | | 1 |
| **Block Heater Power (Watt)** | | 3000 |
| **Fuel Type** | | Diesel |
| **Injection Type and System** | | Direct |
| **Type of Fuel Pump** | | Bosh In-Line P Type |

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| | | |
|---|---|---|
| **Governor System** | | Electronic |
| **Operating Voltage (Vdc)** | | 24 Vdc |
| **Battery and Capacity (Qty/Ah)** | | 2x120 |
| **Charge Alternator (A)** | | 45 |
| **Cooling Method** | | Water Cooled |
| **Cooling Fan Air Flow (m3/min)** | | 700 |
| **Coolant Capacity (engine only / with radiator) (lt)** | | 21/97.1 |
| **Air Filter** | | Dry Type |

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| | | | |
|---|---|---|---|
| **Fuel Cons. Prime With %100 Load (lt/hr)** | | | |
| | | 136.4 | |
| **Fuel Cons. Prime With %75 Load (lt/hr)** | | | |
| | | 103.8 | |
| **Fuel Cons. Prime With %50 Load (lt/hr)** | | | |
| | | 71.2 | |

## ALTERNATOR SPECIFICATIONS

| | | |
|---|---|---|
| **Manufacturer** | | Aksa |
| **Alternator Made and Model** | | AK 6520 |
| **Frequency (Hz)** | **Hz** | 50 |
| **Power (kVA)** | **kVA** | 690 |
| **DESIGN** | | Brushless |
| **VOLTAGE** | **V** | 400/231 |
| **Phase** | | 3 |

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| | | |
|---|---|---|
| **A.V.R.** | | SX440 |
| **Voltage Regulation** | **(+/-)** | %1 |
| **Insulation System** | | H |
| **Protection** | | IP22 |
| **Rated Power Factor** | | 0.8 |
| **WEIGHT COMP. GENERATOR (Kg)** | | 1685 |
| **COOLING AIR ($m^3$/min)** | **$m^3$** | 61.1 |

## 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 | 4000 | 3205 | 1550 | 2029 | 850 |
| **CANOPY** | **DRY WEIGHT (kg.) (kg.)** | **LENGTH (mm.)** | **WIDTH (mm.)** | **HEIGHT (mm.)** | **TANK CAPACITY (lt.) (Lt.)** |

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| | | | | | |
|---|---|---|---|---|---|
| MS 80 TRP<br>Image not found or type unknown | 4940 | 4783 | 1606 | 2485 | 850 |

## 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
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 EQUIPMENTS

ENGINE
• Fuel-Water Seperator Filter
• Oil heater
ALTERNATOR
• Anti-Condensation Heater
• Over sized alternator
• PMG excitation + AVR
• 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
• Earth fault, single set

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- Charge Ammeter

TRANSFER SWITCH

- Three Pole Contactor
- 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
- Trailer
- Tool kit for maintenance
- Automatic transfer switch

## STANDARD SPECIFICATIONS

Compact footprint, low profile design.
Enclosure, generator set, exhaust system and fuel tank are pre-ssembled, pre-integrated and shipped as one package
Body made from steel components treated with polyester powder coating
Fire retardant foam insulation
Easy access to all service points
Exhaust system inside canopy
Large doors on each side
Control panel viewing window in a lockable access door
Emergency stop push button mounted on enclosure exterior
Cooling fan and battery charging alternator fully guarded
Fuel fill and battery can only be reached via lockable access doors.
Lifting points on the top of canopy and base frame
Customer options available to meet your applications needs.
Aksa makes its generating sets' noise level tests in accordance with directive 2000/14/EC validation of the noise level test has been aproved by the notified body Szutest

| | |
|---|---|
| **CANOPY MODEL** | MS 80 TRP |

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| | | |
|---|---|---|
| **WIDTH** | **mm.** | 1606 |
| **LENGTH** | **mm.** | 4783 |
| **HEIGHT** | **mm.** | 2485 |
| **TANK CAPACITY (lt.)** | **Lt.** | 850 |

## INTRODUCTION

Sound-attenuated and weather protective enclosures for generating sets from Aksa, meet event the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

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