



## 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

CE

SZUTEST

2000/14/EC

### General Characteristics

|                                  |                           |
|----------------------------------|---------------------------|
| <b>Model Name</b>                | AC 880                    |
| <b>Frequency (Hz)</b>            | 50                        |
| <b>Fuel Type</b>                 | Diesel                    |
| <b>Engine Made and Model</b>     | CUMMINS - QSK23-G3        |
| <b>Alternator Made and Model</b> | Mecc Alte - ECO 43-1S/4 A |
| <b>Control Panel Model</b>       | DSE 7320                  |
| <b>Canopy</b>                    | AK 90                     |


**3 Phase, 50 Hz, PF 0.8**

| VOLTAGE | STANDBY RATING (ESP) |       | PRIME RATING (PRP) |       | Standby Amper |
|---------|----------------------|-------|--------------------|-------|---------------|
|         | kVA                  | kW    | kVA                | kW    |               |
| 400/231 | 880                  | 704.0 | 800                | 640.0 | 1270.21       |

**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.

### ENGINE SPECIFICATIONS

|                                   |           |                                     |
|-----------------------------------|-----------|-------------------------------------|
| <b>Engine</b>                     |           | CUMMINS                             |
| <b>Engine Model</b>               |           | QSK23-G3                            |
| <b>NO. OF CYLINDERS AND BUILD</b> |           | 6 cylinders - in line               |
| <b>BORE AND STROKE</b>            | <b>mm</b> | 170 X 170                           |
| <b>TOTAL DISPLACEMENT</b>         | <b>L</b>  | 23.15                               |
| <b>Aspiration</b>                 |           | Turbo Charged and Charge Air Cooled |

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



|                                  |             |                |  |
|----------------------------------|-------------|----------------|--|
| <b>COMPRESSION RATIO</b>         |             | 16.0:1         |  |
| <b>RATED SPEED (RPM)</b>         | <b>d/dk</b> | 1500           |  |
| <b>OIL CAPACITY</b>              | <b>L</b>    | 103            |  |
| <b>Standby Power (kW/HP)</b>     |             | 768/1030       |  |
| <b>Prime Power</b>               |             | 701/940        |  |
| <b>Block Heater QTY</b>          |             |                |  |
|                                  |             | 1              |  |
| <b>Block Heater Power (Watt)</b> |             |                |  |
|                                  |             | 3000           |  |
| <b>Fuel Type</b>                 |             |                |  |
|                                  |             | Diesel         |  |
| <b>Injection Type and System</b> |             |                |  |
|                                  |             | Direct         |  |
| <b>Type of Fuel Pump</b>         |             |                |  |
|                                  |             | Cummins HPI-PT |  |



|  |  |              |  |
|--|--|--------------|--|
| <b>Governor System</b>   |  |              |  |
|  |  | Electronic   |  |
| <b>Operating Voltage (Vdc)</b>                                 |  |              |  |
|  |  | 24 Vdc       |  |
| <b>Battery and Capacity (Qty/Ah)</b>                           |  |              |  |
|  |  | 2x143        |  |
| <b>Charge Alternator (A)</b>                                   |  |              |  |
|  |  | 35           |  |
| <b>Cooling Method</b>  |  |              |  |
|  |  | Water Cooled |  |
| <b>Cooling Fan Air Flow (m3/min)</b>                           |  |              |  |
|  |  | 625.8        |  |
| <b>Coolant Capacity (engine only / with radiator)<br/>(lt)</b> |  |              |  |
|  |  | 46,5/120     |  |
| <b>Air Filter</b>  |  |              |  |
|  |  | Dry Type     |  |



|  |  |     |  |
|--|--|-----|--|
| <b>Fuel Cons. Prime With %100 Load (lt/hr)</b> |  |     |  |
|  |  | 161 |  |
| <b>Fuel Cons. Prime With %75 Load (lt/hr)</b>  |  |     |  |
|  |  | 121 |  |
| <b>Fuel Cons. Prime With %50 Load (lt/hr)</b>  |  |     |  |
|  |  | 85  |  |

**ALTERNATOR SPECIFICATIONS**


|                                  |            |                   |
|----------------------------------|------------|-------------------|
| <b>Manufacturer</b>              |            | Mecc Alte         |
| <b>Alternator Made and Model</b> |            | ECO 43-1S/4 A     |
| <b>Frequency (Hz)</b>            | <b>Hz</b>  | 50                |
| <b>Power (kVA)</b>               | <b>kVA</b> | 820               |
| <b>DESIGN</b>                    |            | 4 Pole, Brushless |
| <b>VOLTAGE</b>                   | <b>V</b>   | 400               |
| <b>Phase</b>                     |            | 3                 |

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




|  |                      |      |
|--|----------------------|------|
| <b>A.V.R.</b>                          |                      | DER1 |
| <b>Voltage Regulation</b>              | <b>(+/-)</b>         | 0.5  |
| <b>Insulation System</b>               |                      | H    |
| <b>Protection</b>                      |                      | IP23 |
| <b>Rated Power Factor</b>              |                      | 0.8  |
| <b>WEIGHT COMP. GENERATOR (Kg)</b>     |                      | 1920 |
| <b>COOLING AIR (m<sup>3</sup>/min)</b> | <b>m<sup>3</sup></b> | 90   |

**SIZE and WEIGHT**

| <b>Open Type</b>  | <b>DRY WEIGHT (kg.) (kg.)</b> | <b>LENGTH (mm.)</b> | <b>WIDTH (mm.)</b> | <b>HEIGHT (mm.)</b> | <b>TANK CAPACITY (lt.) (Lt.)</b> |
|---|-------------------------------|---------------------|--------------------|---------------------|----------------------------------|
|  | 5950                          | 3970                | 1722               | 2215                | 1500                             |
| <b>CANOPY</b>   | <b>DRY WEIGHT (kg.) (kg.)</b> | <b>LENGTH (mm.)</b> | <b>WIDTH (mm.)</b> | <b>HEIGHT (mm.)</b> | <b>TANK CAPACITY (lt.) (Lt.)</b> |



|  |      |      |      |      |      |
|--|------|------|------|------|------|
| AK 90<br> | 9100 | 6500 | 2200 | 2350 | 1100 |
|--|------|------|------|------|------|

### 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
- Generators Sets' voltage and frequency regulation comply with ISO 8528-5

### 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 )
- Paralel system with mains.
- Transition synchronization with mains
- Remote annunciator panel
- Remote relay output



- 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
- 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