



## Over Product

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.

## Kracht (kVA)

3 Fasen, 60 Hz, PF 0.8

| Spanning | Stand-by vermogen (ESP) |         | Prime Power (PRP) |         | Standby Amper |
|----------|-------------------------|---------|-------------------|---------|---------------|
|          | kW                      | kVA     | kW                | kVA     |               |
| 380/220  | 1364,00                 | 1705,00 | 1240,00           | 1550,00 | 2590,56       |
| 480/277  | 1530,40                 | 1913,00 | 1275,20           | 1594,00 |               |

**Stand-by vermogen (ESP)** Het wordt gebruikt om te voldoen aan de variabele elektrische belastingvereiste in geval van uitval van de betrouwbare netvoeding. ESP voldoet aan ISO 8528-1 Overbelasting is niet toegestaan.

**Prime Power (PRP)** Wordt gedefinieerd als het continue bedrijfsvermogen onder variabele belasting. PRP voldoet aan ISO 8528-1 10% overbelasting kan elke 12 uur worden gedaan.

## Algemene kenmerken

|                          |                       |
|--------------------------|-----------------------|
| Modelnaam                | AC 1900-6             |
| Frequentie (HZ)          | 60                    |
| Brandstoftype            | Diesel                |
| Motormerk en -model      | CUMMINS KTA50-G9 60Hz |
| Alternatormerk en -model | ECO 46-1S/4 A - 60Hz  |
| Configuratiescherm Model | DSE 7320              |
| Cabine                   | AK 98                 |

## MOTORSPECIFICATIES

|                                     |                                              |
|-------------------------------------|----------------------------------------------|
| Motor                               | CUMMINS                                      |
| Motor model                         | KTA50-G9 60Hz                                |
| Silindir Sayısı (L)                 | 16 cylinders - V type                        |
| Bore (mm.)                          | 159                                          |
| Stroke (mm.)                        | 159                                          |
| Silindir Hacmi (lt.)                | 50.3                                         |
| Aspiratie                           | Turbocharged and Low Temperature Aftercooled |
| Compressieverhouding                | 13.9:1                                       |
| Hız (d/dk)                          | 1800                                         |
| Olie capaciteit (Filtre Dahil) (lt) | 204                                          |
| Stand-by vermogen (kW/HP)           | 1655/2220                                    |
| Prime Power (kW/HP)                 | 1383/1855                                    |
| Blokverwarmingshoeveelheid          | 2                                            |
| Blokkeer verwarmingsvermogen (Watt) | 3000                                         |
| Brandstoftype                       | Diesel                                       |
| Injectietype en systeem             | Direct                                       |
| Type brandstofpomp                  | Cummins PT                                   |





|                                                            |              |
|------------------------------------------------------------|--------------|
| Governor-systeem                                           | Electronic   |
| Bedrijfsspanning (Vdc)                                     | 24 Vdc       |
| Batterij en capaciteit (aantal / Ah)                       | 4X143        |
| Koelmethode                                                | Water Cooled |
| Koelventilatorluchtstroom (m <sup>3</sup> / min)           | 2229         |
| Koelvloeistofcapaciteit (alleen motor / met radiator) (lt) | 140/415      |
| Luchtfilter                                                | Dry Type     |
| Brandstofverbruik bij eerste 100% belasting (lt / uur)     | 330          |
| Brandstofverbruik primair 75% belasting (lt / uur)         | 257          |
| Brandstofverbruik bij eerste 50% belasting (lt / uur)      | 180          |

### Dynamo specificaties

|                                 |                      |
|---------------------------------|----------------------|
| Fabrikant                       | Mecc Alte            |
| Alternatormerk en -model        | ECO 46-1S/4 A - 60Hz |
| Frequentie (HZ)                 | 60                   |
| Kracht (kVA)                    | 1240                 |
| Spanning (V)                    | 380                  |
| Fase                            | 3                    |
| Automatische spanningsregelaar  | DER1                 |
| Voltage regulatie               | (+/-)0.5%            |
| Isolatiesysteem                 | H                    |
| Bescherming                     | IP23                 |
| Nominale vermogensfactor        | 0.8                  |
| Gewicht dynamo (Kg)             | 3010                 |
| Koellucht (m <sup>3</sup> /min) | 162                  |

### OPEN TYPE GENERATOR AFMETINGEN (mm)

|                            |       |
|----------------------------|-------|
| Lengte                     | 5450  |
| Breedte                    | 1950  |
| Hoogte                     | 2450  |
| Droog gewicht (kg.)        | 10400 |
| Inhoud brandstoftank (lt.) | 2000  |

### AFMETINGEN GENERATORKAST (mm)

|                            |       |
|----------------------------|-------|
| Lengte                     | 9000  |
| Breedte                    | 2270  |
| Hoogte                     | 2581  |
| Droog gewicht (kg.)        | 16400 |
| Inhoud brandstoftank (lt.) | 1900  |

1. Steel structure made from steel sheet and steel profiles.
2. Canopy and panels made from powder coated sheet steel.



3. Emergency stop push button.
4. Control panel is mounted on the baseframe . Located at the back of the generator set
5. Cables out locations are under of the canopy.
6. Corrosion.resistant locks and hinges.
7. Oil could be drained via valve and a hose
8. Exhaust system on the canopy.
9. special large access doors (marine type) for easy maintenance
10. Fuel tank is at front of the canopy ,easy access to the fuel tank via lockable door.
11. Lifting points similar to ISO container , located on each top corner of the canopy.
12. The cap on the canopy provides easy access to radiator cap.
13. sound proofing materials
14. Integrated ladder built in to side of the canopy allows access to the top of the canopy.

### Over Product

Sound-attenuated and weather protective enclosures for generating sets from Aksa, meet even 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.

### Besturingskaart

|                        |                                                                                                                                                                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Controle Module        | DSE                                                                                                                                                                                                                                                                                 |
| Besturingsmodule model | DSE 7320                                                                                                                                                                                                                                                                            |
| İletişim Portları      | MODBUS                                                                                                                                                                                                                                                                              |
|                        | <ol style="list-style-type: none"><li>1. Menu navigation buttons</li><li>2. Close mains button</li><li>3. Main Status and instrumentation display</li><li>4. Alarm LED's</li><li>5. Close generator button</li><li>6. Status LED's</li><li>7. Operation selecting buttons</li></ol> |

### Apparaten

DSE, model 7320 Auto Mains Failure control module Static battery charger Emergency stop push button and fuses for control circuits

### Structuur en verf

Comonents installed in sheet steel enclosure.

Phosphate chemical, pre-coating of steel provides corrosion resistant surface

Polyester composite powder topcoat forms high gloss and extremely durable finish

Lockable hinged panel door provides for easy component access

### Montage

Control panel is mounted generating set baseframe on robust steel stand or power module. Located at side of generating set with properly panel visibility.

### Generator regeleenheid

The DSE 7320 control module is a standard addition to our generator sets from 220 kVA upwards and it has been designed to start and stop diesel and gas generating sets that include electronic and non electronic engines.

The DSE 7320 includes the additional capability of being able to monitor a mains (utility) supply and is therefore suitable for controlling a standby generating set in conjunction with an automatic transfer switch.





The DSE7320 also indicates operational status and fault conditions, automatically shutting down the generating set and indicating faults by means of its LCD display on the front panel.

**Standaardfuncties**

Microprocessor controlled

- 132 x 64 pixel LCD display makes information easy to read
- Front panel programming and also via PC software
- Soft touch membrane keypad and five key menu navigation
- Remote communications via RS232, RS485 and ethernet.
- Event logging (50) showing date and time
- Multiple date and time engine exercise mode and maintenance scheduler
- Engine block heater control.
- Controls; stop, manuel, auto, test, start, mute lamb test/transfer to generator, transfer to mains, menu navigation.

**Meetindicatoren****ENGINE**

Engine speed  
Oil pressure  
Coolant temperature  
Run time Battery volts  
Engine maintenance due

**GENERATOR**

Voltage (L-L, L-N)  
Current (L1-L2-L3)  
Frequency  
Earth current  
kW  
Pf  
kVA<sub>r</sub>  
kWh, kVA<sub>h</sub>, kVA<sub>r</sub><sub>h</sub>  
Phase sequence

**MAINS**

Voltage (L-L, L-N)  
Frequency

**WARNING**

Charge failure  
Battery under voltage  
Fail to stop  
Low fuel level (opt.)  
kW over load





Negative phase sequence  
Loss of speed signal  
PRE-ALARMS  
Low oil pressure  
High engine temperature  
Low engine temperature  
Over /Under speed  
Under/over generator frequency  
Under/over generator voltage  
ECU warning  
SHUT DOWNS  
Fail to start  
Emergency stop  
Low oil pressure  
High engine temperature  
Low coolant level  
Over /Under speed  
Under/over generator frequency  
Under/over generator voltage  
Oil pressure sensor open  
Phase rotation  
ELECTRICAL TRIP  
Earth fault  
kW over load  
Generator over current  
Negative phase sequence

**Optie Kenmerken**

High oil temperature shut down  
Low fuel level shut down  
Low fuel level alarm  
High fuel level alarm  
EXPANSION MODULES  
Editional LED module (2548)  
Expansion relay module (2157)  
Expansion input module (2130)

**Standaarden**

Electrical Safety / EMC compatibility  
BS EN 60950 Electrical business equipment



BS EN 61000-6-2 EMC immunity standard

BS EN 61000-6-4 EMC emission standard

### Elektronische acculader

Battery charger is manufactured with switching-mode and SMD technology and it has high efficiency.

Battery charger models' output V-I characteristic is very close to square

2405 has fully output short circuit protection and it can be used as a current source.

2405 charger has high efficiency, long life, low failure rate, light weight and low heat radiated in accordance with linear alternatives.

The charger is fitted with a protection diode across the output.

Charge fail output is available.

Connect charge fail relay coil between positive output and CF output.

Input: 196-264V.

Output: 27,6V 5A or 13,8V 5A.

### Standaardfuncties

- Heavy duty, 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

### Generator hardware-opties

#### TRANSFER SWITCH

- Three or four pole motor operated circuit breaker
- Four Pole Contactor
- Three Pole Contactor

#### OTHER ACCESSORIES

- Tool kit for maintenance
- Trailer
- Inlet and outlet acoustic baffles
- Automatic transfer switch
- Main Fuel Tank
- Supplied with oil and coolant - 30 °C



- Inlet and outlet motorised louvers
- Low and high fuel level alarm
- Electrical oil drain pump
- Automatic or manual fuel filling system
- Duct adapter ( on radiator)
- Enclosure: weater protective or sound attenuated
- Residential silencer

**CONTROL SYSTEM**

- Remote communication with modem
- Alarm output relays
- Charge Ammeter
- Earth fault, single set
- Remote relay output
- Paralel system with mains.
- Automatic synchronising and power control system ( multi gen-set

**Parallel )**

- Remote annunciator panel
- Transition synchronization with mains

**ENGINE**

- Oil heater
- Fuel-Water Seperator Filter
- Remote Radiator Cooling

**ALTERNATOR**

- Main line circuit breaker
- Over sized alternator
- Anti-Condensation Heater

**Certificaten**

- TS ISO 8528
- CE
- SZUTEST
- 2000/14/EC

