



## 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, 50 Hz, PF 0.8

| Spanning | Stand-by vermogen (ESP) |        | Prime Power (PRP) |        | Standby Amper |
|----------|-------------------------|--------|-------------------|--------|---------------|
|          | kW                      | kVA    | kW                | kVA    |               |
| 400/231  | 176,00                  | 220,00 | 160,00            | 200,00 | 317,55        |

**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                | AP 220               |
| Frequentie (HZ)          | 50                   |
| Brandstoftype            | Diesel               |
| Motormerk en -model      | PERKINS 1106A-70TAG4 |
| Alternatormerk en -model | ECO 38-2S/4 C        |
| Configuratiescherm Model | DSE 7320             |
| Cabine                   | AK 49 TRP            |

## MOTORSPECIFICATIES

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| Motor                               | PERKINS                             |
| Motor model                         | 1106A-70TAG4                        |
| Silindir Sayısı (L)                 | 6 cylinders - in line               |
| Bore (mm.)                          | 105                                 |
| Stroke (mm.)                        | 135                                 |
| Silindir Hacmi (lt.)                | 7.01                                |
| Aspiratie                           | Turbo Charged and Charge Air Cooled |
| Compressieverhouding                | 16.0:1                              |
| Hız (d/dk)                          | 1500                                |
| Olie capaciteit (Filtre Dahil) (lt) | 18                                  |
| Stand-by vermogen (kW/HP)           | 196.3/263,13                        |
| Prime Power (kW/HP)                 | 178.9/239,81                        |
| Blokverwarmingshoeveelheid          | 1                                   |
| Blokkeer verwarmingsvermogen (Watt) | 1500                                |
| Brandstoftype                       | Diesel                              |
| Injectietype en systeem             | Direct                              |
| Type brandstofpomp                  | Delphi DP210G Rotary Type           |
| Governor-systeem                    | Electronic                          |
| Bedrijfsspanning (Vdc)              | 12 Vdc                              |

De fabrikant behoudt zich het recht voor om zonder voorafgaande kennisgeving wijzigingen aan te brengen in het model, technische specificaties, kleur, uitrusting, accessoires en afbeeldingen. (17.01.2024)





|                                                            |              |
|------------------------------------------------------------|--------------|
| Batterij en capaciteit (aantal / Ah)                       | 1x85         |
| Laaddynamo (A)                                             | 65           |
| Koelmethode                                                | Water Cooled |
| Koelvloeistofcapaciteit (alleen motor / met radiator) (lt) | /21          |
| Luchtfilter                                                | Dry Type     |
| Brandstofverbruik bij eerste 100% belasting (lt / uur)     | 45.8         |
| Brandstofverbruik primair 75% belasting (lt / uur)         | 34.7         |
| Brandstofverbruik bij eerste 50% belasting (lt / uur)      | 23.1         |

### Dynamo specificaties

|                                |               |
|--------------------------------|---------------|
| Fabrikant                      | Mecc Alte     |
| Alternatormerk en -model       | ECO 38-2S/4 C |
| Frequentie (HZ)                | 50            |
| Kracht (kVA)                   | 200           |
| Spanning (V)                   | 400           |
| Fase                           | 3             |
| Automatische spanningsregelaar | DSR           |
| Voltage regulatie              | (+/-)1%       |
| Isolatiesysteem                | H             |
| Bescherming                    | IP23          |
| Nominale vermogensfactor       | 0.8           |
| Gewicht dynamo (Kg)            | 550           |
| Koellucht (m³/min)             | 32            |

### OPEN TYPE GENERATOR AFMETINGEN (mm)

|                            |      |
|----------------------------|------|
| Lengte                     | 2300 |
| Breedte                    | 1080 |
| Hoogte                     | 1655 |
| Droog gewicht (kg.)        | 1750 |
| Inhoud brandstoftank (lt.) | 340  |

### AFMETINGEN GENERATORCAST (mm)

|                            |      |
|----------------------------|------|
| Lengte                     | 3404 |
| Breedte                    | 1136 |
| Hoogte                     | 2020 |
| Droog gewicht (kg.)        | 2220 |
| Inhoud brandstoftank (lt.) | 340  |

1. Steel structures
2. Emergency stop push button
3. Control panel is right side of the set.
4. Corrosion.resistant locks and hinges
5. Sump drains valves
6. Sound proof foam metarial



## 7. Lifting Points

### Over Product

Sound-attenuated and Weather-protective Enclosures 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.

### 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 conrol module is a standard addition to our generator sets from 220 kVA upwards and it has been designed to start and stop diesel andgas 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

kVAr

kWh, kVAh, kVArh

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

- 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

### Generator hardware-opties

#### ENGINE

- Fuel-Water Separator Filter
- Low water level alarm
- Oil heater

#### ALTERNATOR

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

#### CONTROL SYSTEM

- Remote annunciator panel
- Remote relay output
- Alarm output relays
- Remote communication with modem
- 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
- 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

Supplied with oil and coolant - 30 °C

Battery isolating switch

### Certificaten

- TS ISO 8528
- TS ISO 9001-2008
- CE
- SZUTEST
- 2000/14/EC