



## 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  | 11,60                   | 14,50 | 10,40             | 13,00 | 20,93         |

**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 15             |
| Frequentie (HZ)          | 50                |
| Brandstoftype            | Diesel            |
| Motormerk en -model      | PERKINS 403A-15G1 |
| Alternatormerk en -model | ECP 3-2L/4 C      |
| Configuratiescherm Model | DSE 6120          |
| Cabine                   | AK 10             |

## MOTORSPECIFICATIES

|                                     |                               |
|-------------------------------------|-------------------------------|
| Motor                               | PERKINS                       |
| Motor model                         | 403A-15G1                     |
| Silindir Sayısı (L)                 | 3 cylinders - in line         |
| Bore (mm.)                          | 84                            |
| Stroke (mm.)                        | 90                            |
| Silindir Hacmi (lt.)                | 1.496                         |
| Aspiratie                           | Naturally Aspirated           |
| Compressieverhouding                | 22.5:1                        |
| Hız (d/dk)                          | 1500                          |
| Olie capaciteit (Filtre Dahil) (lt) | 6.0                           |
| Stand-by vermogen (kW/HP)           | 13.5/18.09                    |
| Prime Power (kW/HP)                 | 12.2/16.35                    |
| Blokverwarmingshoeveelheid          | 1                             |
| Blokkeer verwarmingsvermogen (Watt) | 250                           |
| Brandstoftype                       | Diesel                        |
| Injectietype en systeem             | Indirect                      |
| Type brandstofpomp                  | Zexel Cassette type - In-Line |
| Governor-systeem                    | Mechanic                      |
| Bedrijfsspanning (Vdc)              | 12 Vdc                        |





|                                                            |              |
|------------------------------------------------------------|--------------|
| Batterij en capaciteit (aantal / Ah)                       | 1x36         |
| Laaddynamo (A)                                             | 15           |
| Koelmethode                                                | Water Cooled |
| Koelventilatorluchtstroom (m <sup>3</sup> / min)           | 36.6         |
| Koelvloeistofcapaciteit (alleen motor / met radiator) (lt) | 2.6/6.0      |
| Luchtfilter                                                | Dry Type     |
| Brandstofverbruik bij eerste 100% belasting (lt / uur)     | 3.67         |
| Brandstofverbruik primair 75% belasting (lt / uur)         | 2.79         |
| Brandstofverbruik bij eerste 50% belasting (lt / uur)      | 2.04         |

### Dynamo specificaties

|                                 |              |
|---------------------------------|--------------|
| Fabrikant                       | Mecc Alte    |
| Alternatormerk en -model        | ECP 3-2L/4 C |
| Frequentie (HZ)                 | 50           |
| Kracht (kVA)                    | 13.5         |
| Spanning (V)                    | 400          |
| Fase                            | 3            |
| Automatische spanningsregelaar  | DSR          |
| Voltage regulatie               | (+/-)1%      |
| Isolatiesysteem                 | H            |
| Bescherming                     | IP23         |
| Nominale vermogensfactor        | 0.8          |
| Gewicht dynamo (Kg)             | 87           |
| Koellucht (m <sup>3</sup> /min) | 3            |

### OPEN TYPE GENERATOR AFMETINGEN (mm)

|                            |      |
|----------------------------|------|
| Lengte                     | 1250 |
| Breedte                    | 850  |
| Hoogte                     | 1068 |
| Droog gewicht (kg.)        | 425  |
| Inhoud brandstoftank (lt.) | 50   |

### AFMETINGEN GENERATORKAST (mm)

|                            |      |
|----------------------------|------|
| Lengte                     | 1851 |
| Breedte                    | 910  |
| Hoogte                     | 1180 |
| Droog gewicht (kg.)        | 565  |
| Inhoud brandstoftank (lt.) | 50   |

- 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 material
- 7 . Base frame .tank

### 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 6120                                                                                                                                                                                                                                                                                    |
| İletişim Portları      | CANBUS                                                                                                                                                                                                                                                                                      |
|                        | <ul 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> </ul> |

### Apparaten

- DSE, model 6120 Auto Mains Failure control module.
- Battery charger input 198-264 volt, output 27,6 V 5 A (24 V) or 13,8 Volt 5A (12V)
- Emergency stop push button and fuses for control circuits.

### Structuur en verf

-Components 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 and hinged panel door provides easy access to components.

### Montage

Control panel is mounted on baseframe with steel stand. Located at the right side of the generator set (When you look at the Gen.Set. from Alternator)

### Generator regeleenheid

The DSE 6120 module has been designed to monitor generator frequency, volt, current, engine oil pressure, coolant temperature running hours and battery volts.

Module monitors the mains supply and switch over to the generator when the mains power fails.

The DSE6120 also indicates operational status and fault conditions, Automatically shutting down the Gen. Set and giving true first up fault condition of Gen. Set failure. The LCD display indicates the fault.

### Standaardfuncties

- Microprocessor controlled.
- LCD display makes information easy to read.
- Automatically transfers between mains (utility) and generator power.
- Manual programming on front panel.
- User-friendly set-up and button layout.
- Remote start.
- Event logging (50) showing date and time.
- Controls: Stop/Reset, Manual, Auto, Test, Start, buttons. An additional push button next to the LCD display is used to



scroll through the modules' metering displays.

### Meetindicatoren

#### ENGINE

- Engine speed.
- Oil pressure.
- Coolant temperature.
- Run time.
- Battery volts.
- Configurable timing.

#### GENERATOR

- Voltage (L-L, L-N).
- Current (L1-L2-L3).
- Frequency.
- Gen. Set ready.
- Gen. Set enabled.

#### MAINS

- Mains ready.
- Mains enabled.

#### WARNING

- Charge failure.
- Battery Low/High voltage.
- Fail to stop.
- Low /High generator voltage.
- Under /Over generator frequency.
- Over /Under speed.
- Low oil pressure.
- High coolant temperature.

#### SHUT DOWNS

- Fail to start.
- Emergency stop.
- Low oil pressure.
- High coolant temperature.
- Over /Under speed.
- Under/over generator frequency.
- Under/over generator voltage.
- Oil pressure sensor open.
- Coolant temperature sensor open.

#### ELECTRICAL TRIP





-Generator over current.

#### **Optie Kenmerken**

- Flexible sensor can be controlled with temperature, pressure, percentage (warning/shutdown/electrical trip)
- Local setting parameters and monitoring from PC to control module with USB connection (max 6 mt).

#### **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 and output is 5 amper, 13,8 V for 12 volt and 27,6 V for 24 V . Input 198 - 264 volt AC.
- The charger is fitted with a protection diode across the output.
- Connect charge fail relay coil between positive output and CF output.
- They are equipped with RFI filter to reduce electrical noise radiated from the device.
- Galvanically isolated input and output typically 4kV for high reliability.

#### **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

