



## Einführung

Aksa is committed to providing the most effective solution to the Data Center industry with the power it takes from engineering, production, distribution, and customer-oriented experience and knowledge. We are constantly improving designs, products and infrastructure to offer the highest level of reliability for Emergency Power Systems. While serving the industry in hundreds of countries Globally, we design our products and systems in line with the needs of Data Center practitioners at the center of our focus. Aksa generator group provides continuity, reliability and ideal performance for Data Centers.

## Leistung

3 Phase, 50 Hz, PF 0.8

| Spannung (V) | Bereitschaftsleistung (ESP) |      | DCC-Leistung (DCP) |        | DCC-Strom (A) |
|--------------|-----------------------------|------|--------------------|--------|---------------|
|              | kW                          | kVA  | kW                 | kVA    |               |
| 400 / 231    | 1129,6                      | 1412 | 1008.56            | 1260.7 | 2038          |

Bereitschaftsleistung (ESP) : Anwendbar für die Versorgung einer variablen elektrischen Last für die Dauer einer Unterbrechung der Stromversorgung durch eine zuverlässige Energiequelle. ESP entspricht der ISO 8528-1. Überlast ist nicht zulässig.

Data Center Continuous (DCP) : Die Leistung eines Rechenzentrums ist definiert als die maximale Leistung, die ein Stromerzeugungsaggregat bei der Versorgung einer variablen oder kontinuierlichen elektrischen Last und während unbegrenzter Betriebsstunden liefern kann.

\*Datentoleranz ±5%

## Allgemeine Charakteristiken

|                                 |                                      |
|---------------------------------|--------------------------------------|
| Modellname                      | AC 1411                              |
| Frequenz (Hz)                   | 50                                   |
| Treibstoffart                   | Diesel                               |
| Motor Marke und Modell          | Cummins KTA50-G3 (For DCCP)          |
| Marke und Modell des Generators | Stamford S6L1D-H4 Wdg.312 (For DCCP) |
| Steuerung Modell                | DSE 7320                             |
| Schalldämmhaube                 | OpenGenset                           |

## Motorspezifikationen

### Allgemeine Daten

|              |                     |
|--------------|---------------------|
| Hersteller   | Cummins             |
| Motor Modell | KTA50-G3 (For DCCP) |



|                             |                                |
|-----------------------------|--------------------------------|
| Anzahl der Zylinder         | 16 cylinders - V type          |
| Bohrung (mm)                | 159                            |
| Hub (mm.)                   | 159                            |
| Hubraum (lt.)               | 50.3                           |
| Kompressionsrate            | 13.9:1                         |
| Motorumdrehungen (U/min)    | 1500                           |
| Standby-Leistung (kW/PS)    | 1227/1645                      |
| DCC-Leistung (PRP)          | 1097/1470                      |
| Kühlwasservorwärmung Anzahl | 2                              |
| Kühlwasservorwärmung (Watt) | 3000                           |
| Drehzahlregelung            | Electronic                     |
| Luftfilter                  | Dry Type                       |
| Ansaugung                   | Turbo Charged and After Cooled |

#### Schmiersystem

|                        |     |
|------------------------|-----|
| Ölkapazität (lt)       | 177 |
| Max. Öltemperatur (°C) | 121 |

#### Kraftstoffsystem

|                           |                  |
|---------------------------|------------------|
| Treibstoffart             | Diesel           |
| Injektionsart und -system | Direct Injection |
| Typ der Kraftstoffpumpe   | Cummins PT       |

#### Elektrisches System

|                                   |        |
|-----------------------------------|--------|
| Betriebsspannung (Vdc)            | 24 Vdc |
| Batterie und Kapazität (Menge/Ah) | 4x143  |
| Lichtmaschine                     | 35     |

#### Kühlsystem

|                 |              |
|-----------------|--------------|
| Kühlungsmethode | Water Cooled |
|                 | 161          |

#### Abgassystem

|                          |       |
|--------------------------|-------|
| Abgasstrom (m³/min.)     | 223,6 |
| Abgasgegendruck (kPa)    | 6.8   |
| Abgastemp. (C)           | 520   |
| Wärmeabgabe an das Abgas | 760   |

#### Kühler



Luftstrom des Kühlgebläses (m³/min.) 1557

Externe Einschränkung des Kühlluftstroms (Pa) 120

### Kraftstoffverbrauch

Kraftstoffverbrauch @100% DCC Last l/h (kg/h) 261

Kraftstoffverbrauch @75% DCC Last l/h (kg/h) 199

Kraftstoffverbrauch @50% DCC Last l/h (kg/h) 139

### Eigenschaften des Generators

Hersteller Stamford

Generatormodell S6L1D-H4 Wdg.312 (For DCCP)

Frequenz (Hz) 50

Leistung (kVA) 1400

Spannung (V) 400

Phase 3

Regler MX341

Spannungsregulierung 1

Isoliersystem H

Schutz IP23

Nennleistungsfaktor 0,8

Gewicht kompletter Generator (kg) 2836

Temperaturerhöhungs-Klasse H

Kühlungsluft (m³/min) 113,4

### Abmessungen des offenen Aggregates

Länge (mm) 4940

Breite (mm) 2100

Höhe (mm) 2400

Tankinhalt (lt.) 2000

### Steuerung

Hersteller DSE

Steuerungsmodul Modell DSE 7320

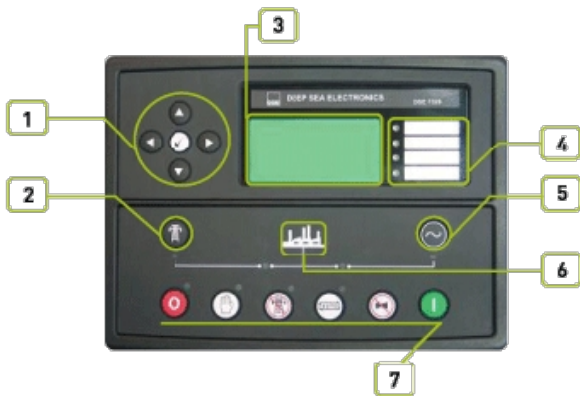
Kommunikationsanschlüsse MODBUS

1. Menu navigation buttons

2. Close mains button

Der Hersteller behält sich das Recht vor, ohne vorherige Ankündigung Änderungen an Modell, technischen Spezifikationen, Farbe, Ausstattung und Zubehör vorzunehmen.

04/08/2026



3. Main Status and instrumentation display
4. Alarm LED's
5. Close generator button
6. Status LED's
7. Operation selecting buttons

## Standardgeräte

DSE model 7320, Auto Mains Failure control module, with a highly sophisticated level of new features and functions  
Static battery charger, Fuses for control circuits

## Steuergerät

- 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.

## Bau und Fertigstellung

- 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 hinged panel door provides for easy component access

## Installation

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

## Motor

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

## Abschaltung

- Fail to start
- Emergency stop
- Low oil pressure
- High engine temperature
- Low coolant level
- Under/over speed
- Under/over generator frequency
- Under/over generator voltage
- Oil pressure sensor open
- Phase rotation

## Warnungen

- Charge failure
- Battery under voltage
- Fail to stop
- Low fuel level (opt.)
- kW over load
- Negative phase sequence
- Loss of speed signal

## Generator

## Warnung

## Elektrische Auslösung

Der Hersteller behält sich das Recht vor, ohne vorherige Ankündigung Änderungen an Modell, technischen Spezifikationen, Farbe, Ausstattung und Zubehör vorzunehmen.

04/08/2026



- Voltage (L-L, L-N)
- Current (L1-L2-L3)
- Frequency
- Earthcurrent
- kW
- Pf
- kVA<sub>r</sub>
- kWh, kVAh, kVA<sub>r</sub>h
- Phasesequence

- Low oil pressure
- High engine temperature
- Low engine temperature
- Under/over speed
- Under/over generator frequency
- Under/over generator voltage
- ECU warning

- Earth fault
- kW over load
- Generator over current
- Negative phase sequence

### Netz

- Voltage (L-L, L-N)
- Frequency

### Erweiterungen

- Additional LED module (2548)
- Expansion relay module (2157)
- Expansion input module (2130)

### Optionen

- High oil temperature shut down
- Low fuel level shut down
- Low fuel level alarm
- High fuel level alarm

### Compliance-Liste des Control Panels

- Electrical Safety / Electro Magnetic Compatibility (EMC)
- BS EN 61000-6-2 EMC Generic Immunity Standard
- BS EN 61000-6-4 EMC Generic Emission Standard
- BS EN 60950 Electrical Safety

### Statisches Batterieladegerät

- 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.

### Standard Ausrüstung

- Water cooled diesel engine
- Radiator and electrical motor driven fan
- Protective cage to prevent rotating and touching hot parts
- Output breaker
- Electric starter and charge alternator
- Battery (lead acid), cables and stand
- Automatic synchronization and power control system (multiple parallel generator)
- Circulation pump (for engine block heater)
- Engine block water heater
- Steel chassis and anti-vibration wedges
- Fuel tank separate from the group
- Flexible fuel connection hoses
- Alternator with single bearing and H insulation class



- Industrial capacity muffler and flexible steel compensator
- Electronic battery charger
- Operating and installation instructions

## Optionale Ausrüstung

### Motor

- Fuel-Water Separator Filter
- Oil heater
- Air filter

### Generator

- Anti-Condensation Heater
- Over sized alternator
- PMG excitation + AVR
- Main line circuit breaker
- 5% derate when air inlet filters are fitted

### Steuerung

- Automatic synchronising and power control system (Multi gen-set Parallel)
- Parallel system with mains
- Transition synchronization with mains
- Alarm output relays
- Earth fault, single set
- Parallel system with mains
- Remote relay output
- Remote communication with modem
- Charge Ammeter

### Transferpanel

- Three or four pole contactor
- Three or four pole motor operated circuit breaker

### Zusatzausrüstung

- Main Fuel Tank
- Automatic or manual fuel filling system
- Electrical oil drain pump
- Low and high fuel level alarm
- Inlet and outlet motorized louvers
- Inlet and outlet acoustic baffles
- Tool kit for maintenance
- 1500/3000 hours maintenance kit
- Supplied with oil and coolant (-30°C)

### Auspuff

- Residential Silencer
- Silencer Spark Arrester
- Critical Silencer
- Catalytic Converter

### Gehäuse

- Galvanized Coating
- ISO Container
- Marine Grade Paint

### Optionales Generatorsteuerfeld

Please contact to your reseller for additional Alternator, Control Panel and Breaker Switch options.

## Aksa-Zertifikate

### Richtlinie

- 2006/42/EC : Machinery Safety Directive
- 2014/30/EU : Electromagnetic Compatibility Directive
- 2014/35/EU : Low Voltage Directive

### Standards



- TS ISO 8528-5:2022 / TS EN ISO 8528-13:2018 : Reciprocating internal combustion engine-driven alternating current generating sets- Part:13: Safety

Quality Management Systems

ISO 9001:2015  
ISO 14001:2015  
ISO 45001:2018  
ISO 50001:2018  
ISO 27001:2013  
ISO 10002:2018