

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	1800,0	2250	1600.00	2000	3248

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 $\pm 5\%$

Allgemeine Charakteristiken

Modellname	AP 2250
Frequenz (Hz)	50
Treibstoffart	Diesel
Motor Marke und Modell	Perkins 4016-61TRG2
Marke und Modell des Generators	Mecc Alte ECO 46-1L/4 A
Steuerung Modell	InteliGen NT
Schalldämmhaube	OpenGenset

Motorspezifikationen

Allgemeine Daten

Hersteller	Perkins
Motor Modell	4016-61TRG2



Anzahl der Zylinder	16 cylinders - V type
Bohrung (mm)	160
Hub (mm.)	190
Hubraum (lt.)	61.123
Kompressionsrate	13.1
Motorumdrehungen (U/min)	1500
Standby-Leistung (kW/PS)	1985/2698.8
DCC-Leistung (PRP)	1774/2412
Kühlwasservorwärmung Anzahl	2
Kühlwasservorwärmung (Watt)	3000
Drehzahlregelung	Electronic
Luftfilter	Dry Type
Ansaugung	Turbo Charged

Schmiersystem

Ölkapazität (lt)	213
Max. Öltemperatur (°C)	105

Kraftstoffsystem

Treibstoffart	Diesel
Injektionsart und -system	Direct
Typ der Kraftstoffpumpe	Unit Injector

Elektrisches System

Betriebsspannung (Vdc)	24 Vdc
Batterie und Kapazität (Menge/Ah)	4x143
Lichtmaschine	55

Kühlsystem

Kühlungsmethode	Water Cooled
	252

Abgassystem

Abgasstrom (m³/min.)	475
Abgasgegendruck (kPa)	4
Abgastemp. (C)	489
Wärmeabgabe an das Abgas	1380

Kühler



Gesamtkühlmittelkapazität (lt)	703.24
Luftstrom des Kühlgebläses (m³/min.)	3250
Externe Einschränkung des Kühlluftstroms (Pa)	125

Kraftstoffverbrauch

Kraftstoffverbrauch @100% DCC Last l/h (kg/h)	405
Kraftstoffverbrauch @75% DCC Last l/h (kg/h)	306
Kraftstoffverbrauch @50% DCC Last l/h (kg/h)	208

Eigenschaften des Generators

Hersteller	Mecc Alte
Generatormodell	ECO 46-1L/4 A
Frequenz (Hz)	50
Leistung (kVA)	2100
Spannung (V)	400
Phase	3
Regler	DER1
Spannungsregulierung	0.5
Isoliersystem	H
Schutz	IP23
Nennleistungsfaktor	0.8
Gewicht kompletter Generator (kg)	3810
Kühlungsluft (m³/min)	135

Abmessungen des offenen Aggregates

Länge (mm)	5900
Breite (mm)	2390
Höhe (mm)	3020
Tankinhalt (lt.)	2000

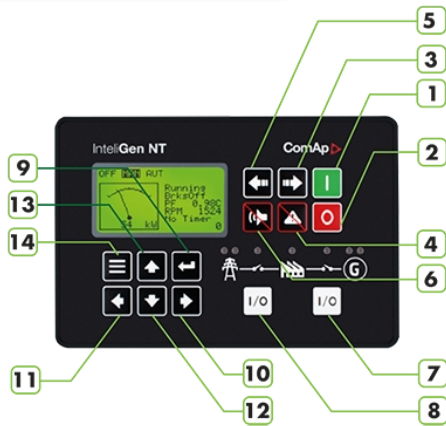
Steuerung

Hersteller	Comap
Steuerungsmodul Modell	InteliGen NT
Kommunikationsanschlüsse	MODBUS

1. Start
2. Stop

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

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3. Mode > OFF > MAN > AUT > TEST
4. Fault Reset
5. Mode < OFF < MAN < AUT < TEST
6. Horn Reset
7. GCB control (Open/Close)
8. MCB control (Open/Close)
9. Enter
10. 5% Increase of edited setpoint's value.
11. 5% decrease of edited setpoint's value.
12. Decrease setpoint value.
13. Increase setpoint value.
14. Escape.

Standardgeräte

InteliGen NT Auto Mains Failure control module.
Static battery charger.
Emergency stop push button and fuses for control circuits.

Steuergerät

195Vac to 264Vac input voltage range
45Hz to 440Hz input supply frequency range
Capability to work direct from 240Vdc to 365Vdc supply voltage
27.6Vdc factory set DC out-put terminal voltage (option up to 29.4Vdc)
5.0Adc continuous output current into load
Capability to work continuously into short-circuit
Parallel connection for higher output current rating and redundant operation
Series connection capability for higher output voltage requirements
No cooling fans are used for high operational reliability
Aluminum alloy case for robust handling and easy mounting

Bau und Fertigstellung

Components installed in a sheet steel enclosure.
Phosphate chemical, pre-coating of steel provides corrosion resistant surface.
Polyester composite powder topcoat forms high gloss and an extremely durable finish.
Lockable hinged panel door provides for easy component access.

Installation

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

Optionen

Compliance-Liste des Control Panels

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- High oil temperature - Shutdown
- Low fuel level - Shutdown
- Low fuel level - Alarm
- High fuel level - Alarm
- Customizable load control in parallel with the network
- Wide range of ECU support
- Highly configurable
- Timers, Internal PLC, Force values and more are compatible with ComAp's IntelliVision displays
- Active e-mail messaging and SMS with communication module

EN 60068-2-6 ed.2:2008
EN 60068-2-27 ed.2:2010
EN 60068-2-30:2005
25/55°C, RH 95%, 48hours
EN 60068-2-64
EN 61010-1:2003

Statisches Batterieladegerät

EBC 2405M is designed and optimized for charging all types of Lead Acid batteries (including jell type sealed Lead Acid batteries), protecting the battery and extending its useful lifetime. EBC 2405M can deliver a continuous charging current of 5A into 24V battery system (voltage is set to 27.6Vdc, with an option of up to 29.4Vdc). These battery chargers are designed with performance in mind and special care is taken for protecting and extending the lifetime of the battery.

EBC 2405M is designed with "Switched Mode" technology, where the switching transistor has only two states, ON or OFF, which increases the overall efficiency, hence reducing the excess heat dissipation and in return, increasing the device lifetime and reliability.

The control system is also designed in such a way that; battery is charged in three stages:

Constant current mode (protecting battery cells)

Constant voltage mode (reducing the charge current)

Float charge (compensation of internal self-discharge)

Constant current mode makes sure that; when the battery is drained down below its rated capacity, the high charge current flow into the battery is limited in order to protect the cells and reduce damage to the plates.

As the battery capacity is recovered, each cell voltage reaches up to 2.30Vdc to 2.45Vdc level, which means that the required charging current starts to reduce.

When the required battery terminal voltage is fully reached, the charger keeps supplying just enough current in order to compensate for the internal self-discharge (float charge). This ensures that the battery can maintain its high charge state and deliver its rated output current whenever required.

Standard Ausrüstung

- Water cooled diesel engine
- Radiator and electrical motor driven fan
- Protective cage to prevent rotating and touching hot parts

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- 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

Generator

- Anti-Condensation Heater
- Over sized alternator
- PMG excitation + AVR
- Main line circuit breaker

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