



## Ürün Hakkında

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.

## Güç

3 Phase, 50 Hz, PF 0.8

| Voltaj (V) | STANDBY GÜÇ(ESP) |      | DCC GÜÇ (DCP) |      | DCC AKIM(A) |
|------------|------------------|------|---------------|------|-------------|
|            | kW               | kVA  | kW            | kVA  |             |
| 400 / 231  | 1452,0           | 1815 | 1320.00       | 1650 | 2620        |

Standby Güç (ESP) : Güvenilir şebeke kaynağının kesilmesi durumunda, değişken elektrik yük ihtiyacının karşılanmasında kullanılır. ESP, ISO 8528-1'e uygundur Aşırı yüklemeye izin verilmemiştir.

Data Center Continuous (DCP) : Veri merkezi gücü, bir jeneratör setinin değişken veya sürekli bir elektrik yükünü beslerken ve sınırsız çalışma saatleri boyunca sağlayabileceği maksimum güç olarak tanımlanır.

\*Veri toleransı  $\pm 5\%$

## Genel Özellikler

|                            |                  |
|----------------------------|------------------|
| Model Adı                  | AC 1815          |
| Frekans (Hz)               | 50               |
| Yakıt Tipi                 | Diesel           |
| Motor Marka ve Modeli      | Cummins QSK50-G7 |
| Alternatör Marka ve Modeli | Stamford PI734D  |
| Kontrol Panel Modeli       | InteliGen NT     |
| Kabin Modeli               | OpenGenset       |

## Motor Özellikleri

### Genel Bilgiler

|              |          |
|--------------|----------|
| Üretici      | Cummins  |
| Motor Modeli | QSK50-G7 |



|                          |                                |
|--------------------------|--------------------------------|
| Silindir Sayısı / Tipi   | 16 cylinders - V type          |
| Bore mm (in)             | 159                            |
| Stroke mm (in)           | 159                            |
| Hacim l (cu. In)         | 50.3                           |
| Sıkıştırma Oranı         | 15.0:1                         |
| Motor Hızı (rpm)         | 1500                           |
| Standby Güç (kW/hp)      | 1581/2120                      |
| DCC Güç (kW/hp)          | 1421/1905                      |
| Blok Isıtıcı (Adt)       | 2                              |
| Blok Isıtıcı Gücü (Watt) | 3000                           |
| Governor Sistemi         | ECM                            |
| Hava Filtresi            | Dry Type                       |
| Hava Emiş                | Turbo Charged and After Cooled |

#### Yağlama Sistemi

|                            |       |
|----------------------------|-------|
| Yağ Kapasitesi l (gal)     | 204.4 |
| Maks. Yağ Sıcaklığı °C (F) | 121   |

#### Yakıt Sistemi

|                  |                                                                |
|------------------|----------------------------------------------------------------|
| Yakıt Tipi       | Diesel                                                         |
| Enjeksiyon Tipi  | Hydraulically Actuated Electronically Controlled Unit Injector |
| Yakıt Pompa Tipi | Cummins MCRS                                                   |

#### Elektrik Sistemi

|                          |        |
|--------------------------|--------|
| Çalışma Voltajı (Vdc)    | 24 Vdc |
| Akü ve Kapasite (Adt/Ah) | 4/143  |
| Şarj Alternatörü (A)     | 55     |

#### Soğutma Sistemi

|                                                 |              |
|-------------------------------------------------|--------------|
| Soğutma Metodu                                  | Water Cooled |
| Soğutma Suyu Kapasitesi (yalnızca motor)l (gal) | 140.1        |

#### Egzoz Sistemi

|                               |       |
|-------------------------------|-------|
| Egzoz Gaz Debisi (m³/dk)      | 321.6 |
| Egzoz Geri Basınç in-Hg (kPa) | 6.8   |
| Egzoz Gaz Sıcaklığı °C (F)    | 520   |
| Egzoz Geçen Isı kW (BTU/min)  | 1135  |

**Yakıt Tüketimi**

|                                          |     |
|------------------------------------------|-----|
| %100 DCC Yükte Yakıt Tüketimi l/h (kg/h) | 349 |
| %75 DCC Yükte Yakıt Tüketimi l/h (kg/h)  | 265 |
| %50 DCC Yükte Yakıt Tüketimi l/h (kg/h)  | 189 |

**Alternator Özellikleri**

|                               |          |
|-------------------------------|----------|
| Üretici                       | Stamford |
| Alternatör Model              | PI734D   |
| Frekans (Hz)                  | 50       |
| Güç (kVA)                     | 1650     |
| Voltaaj (V)                   | 400      |
| Faz                           | 3        |
| A.V.R.                        | MX341    |
| Voltaaj Regülasyon            | 1        |
| Yalıtım Sınıfı                | H        |
| Koruma Sınıfı                 | IP23     |
| Nominal Güç Faktörü           | 0.8      |
| Toplam Generator Ağırlık (kg) | 3318     |
| Soğutma Havası (m³/dk)        | 161.4    |

**Açık Jeneratör Boyutları**

|                                    |       |
|------------------------------------|-------|
| Uzunluk mm                         | 5640  |
| Genişlik mm                        | 1980  |
| Yükseklik mm                       | 2600  |
| Açık Gen.Set Brüt Ağırlık, Kuru kg | 10600 |
| Yakıt Tank Kapasitesi (l)          | 2000  |

**Kontrol Paneli**

|                      |              |
|----------------------|--------------|
| Üretici              | Comap        |
| Kontrol Modül Modeli | InteliGen NT |
| İletişim Portları    | MODBUS       |

1. Start
2. Stop
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.

### Standart Cihazlar

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

### Kontrol Ünitesi

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)  
5.0A dc 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

### Yapım ve Boya

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.

### Montaj

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.

### Opsiyonlar

- High oil temperature - Shutdown

### Kontrol Paneli Uyumluluk Listesi



- 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

### Statik Akü Şarj Cihazı

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.

### Standart Ekipmanlar

- 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

## Opsiyonel Ekipmanlar

### Motor

- Fuel-Water Separator Filter
- Oil heater

### Alternatör

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

### Kontrol Paneli

- 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

### Transfer Panosu

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

### Yardımcı Ekipmanlar

- 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)

### Egzoz

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

### Kabin

- Galvanized Coating
- ISO Container
- Marine Grade Paint

### Opsiyonel Alternatör ve Kontrol Paneli

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

## Aksa Sertifikalar

### Direktifler



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

**Standartlar**

- 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