



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	1813,8	2267,3	1615.12	2018.9	3273

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	AP 2251
Frekans (Hz)	50
Yakıt Tipi	Diesel
Motor Marka ve Modeli	Perkins 4016-61TRG2 (DATA CENTER)
Alternatör Marka ve Modeli	Stamford S7L1D-G4
Kontrol Panel Modeli	DSE 7320
Kabin Modeli	OpenGenset

Motor Özellikleri

Genel Bilgiler

Üretici	Perkins
Motor Modeli	4016-61TRG2 (DATA CENTER)



Silindir Sayısı / Tipi	16 cylinders - V type
Bore mm (in)	160
Stroke mm (in)	190
Hacim l (cu. In)	61.123
Sıkıştırma Oranı	13.1
Motor Hızı (rpm)	1500
Standby Güç (kW/hp)	1985/2662
DCC Güç (kW/hp)	1774/2379
Blok Isıtıcı (Adt)	2
Blok Isıtıcı Gücü (Watt)	3000
Governor Sistemi	Electronic
Hava Filtresi	Dry Type
Hava Emiş	Turbo Charged

Yağlama Sistemi

Yağ Kapasitesi l (gal)	213
Maks. Yağ Sıcaklığı °C (F)	105

Yakıt Sistemi

Yakıt Tipi	Diesel
Enjeksiyon Tipi	Direct
Yakıt Pompa Tipi	Unit Injector

Elektrik Sistemi

Çalışma Voltajı (Vdc)	24 Vdc
Akü ve Kapasite (Adt/Ah)	4x143
Şarj Alternatörü (A)	55

Soğutma Sistemi

Soğutma Metodu	Water Cooled
Soğutma Suyu Kapasitesi (yalnızca motor)l (gal)	252

Egzoz Sistemi

Egzoz Gaz Debisi (m³/dk)	475
Egzoz Geri Basınç in-Hg (kPa)	4
Egzoz Gaz Sıcaklığı °C (F)	489
Egzoz Geçen Isı kW (BTU/min)	1380

Radyatör

Soğutma Fan Hava Debisi m³/min (ft³/min)	1919
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Soğutma Havası Harici Direnç (Pa)

120

Yakıt Tüketimi

%100 DCC Yükte Yakıt Tüketimi l/h (kg/h)

405

%75 DCC Yükte Yakıt Tüketimi l/h (kg/h)

306

%50 DCC Yükte Yakıt Tüketimi l/h (kg/h)

208

Alternator Özellikleri

Üretici

Stamford

Alternatör Model

S7L1D-G4

Frekans (Hz)

50

Güç (kVA)

2080

Voltaj (V)

400

Faz

3

A.V.R.

MX341

Voltaj Regülasyon

1

Yalıtım Sınıfı

H

Koruma Sınıfı

IP23

Nominal Güç Faktörü

0,8

Toplam Generator Ağırlık (kg)

3637

Sıcaklık Artış Sınıfı

H

Soğutma Havası (m³/dk)

143,4

Açık Jeneratör Boyutları

Uzunluk mm

9000

Genişlik mm

2800

Yükseklik mm

3307

Yakıt Tank Kapasitesi (l)

2000

Kontrol Paneli

Üretici

DSE

Kontrol Modül Modeli

DSE 7320

İletişim Portları

MODBUS

1. Menu navigation buttons
2. Close mains button
3. Main Status and instrumentation display
4. Alarm LED's



- 5. Close generator button
- 6. Status LED's
- 7. Operation selecting buttons

Standart Cihazlar

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

Kontrol Ünitesi

- 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.

Yapım ve Boya

- 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

Montaj

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

Durdurma

- 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

Uyarılar

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

Jeneratör

Ön-Alarmlar

Elektrik Açma



- Voltage (L-L, L-N)
- Current (L1-L2-L3)
- Frequency
- Earthcurrent
- kW
- Pf
- kVAr
- kWh, kVAh, kVArh
- 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

Şebeke

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

Genişleme Modülleri

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

Opsiyonlar

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

Kontrol Paneli Uyumluluk Listesi

- 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

Statik Akü Şarj Cihazı

- 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.

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
- Air filter

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

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)

Kabin

- Galvanized Coating
- ISO Container
- Marine Grade Paint

Alternatör

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

Transfer Panosu

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

Egzoz

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

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