

Ürün Hakkında

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.

Güç

3 Phase, 50 Hz, PF 0.8

Voltaj (V)	STANDBY GÜÇ(ESP)		PRIME GÜÇ (PRP)		STANDBY AKIM (A)
	kW	kVA	kW	kVA	
400 / 231	168,0	210	152,0	190	303

STANDBY RATING (ESP) Güvenilir bir şebeke kaynağının güç kesintisi süresince değişken elektrik yüküne güç sağlamak için geçerlidir. ESP, ISO 8528-1'e uygundur. Aşırı yüklemeye izin verilmez.

PRIME RATING (PRP) Değişken elektrik yüküne sınırsız saat boyunca güç sağlamak için geçerlidir. PRP, ISO 8528-1'e uygundur. %10 aşırı yük kapasitesi, 12 saatlik çalışma süresi içinde 1 saatlik bir süre için kullanılabilir.

Genel Özellikler

Model Adı	ADG 210
Frekans (Hz)	50
Yakıt Tipi	Natural Gas
Motor Marka ve Modeli	HYUNDAI GE12TI
Alternatör Marka ve Modeli	Mecc Alte ECO 38-2S/4 C
Kontrol Panel Modeli	DSE 7320
Kabin Modeli	MS 60 NG

Motor Özellikleri

Genel Bilgiler

Üretici	HYUNDAI
Motor Modeli	GE12TI
Silindir Sayısı / Tipi	6 cylinders - in line
Bore mm (in)	123 (4,8)



Stroke mm (in)	155 (6,1)
Hacim I (cu. In)	11,1 (674,5)
Sıkıştırma Oranı	10.5:1
Motor Hızı (rpm)	1500
Standby Güç (kW/hp)	192 / 262
Prime Güç (kW/hp)	175 / 238
Blok Isıtıcı (Adt)	1
Blok Isıtıcı Gücü (Watt)	1500
Governor Sistemi	ECU
Hava Filtresi	Dry Type
Hava Emiş	Turbo Charged

Yağlama Sistemi

Yağ Kapasitesi I (qal)	25 (6,6)
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Yakıt Sistemi

Yakıt Tipi	Natural Gas
Enjeksiyon Tipi	Spark-Ignited
Yakıt Pompa Tipi	-

Elektrik Sistemi

Çalışma Voltajı (Vdc)	24 Vdc
Akü ve Kapasite (Adt/Ah)	2x85
Şarj Alternatörü (A)	45

Soğutma Sistemi

Soğutma Metodu	Water Cooled
Soğutma Suyu Kapasitesi (yalnızca motor)I (gal)	21 (5,5)

Egzoz Sistemi

Egzoz Gaz Debisi (m ³ /dk)	23
Egzoz Gaz Sıcaklığı °C (F)	545

Yakıt Tüketimi

%100 Prime Yükte Yakıt Tüketimi m3/h (kg/h)	43,4 (31,1)
%75 Prime Yükte Yakıt Tüketimi m3/h (kg/h)	34,3 (24,6)
%50 Prime Yükte Yakıt Tüketimi m3/h (kg/h)	26,3 (18,9)

Alternator Özellikleri



Üretici	Mecc Alte
Alternatör Model	ECO 38-2S/4 C
Frekans (Hz)	50
Güç (kVA)	200
Voltaj (V)	400
Faz	3
A.V.R.	DSR
Voltaj Regülasyon	1
Yalıtım Sınıfı	H
Koruma Sınıfı	IP23
Nominal Güç Faktörü	0.8
Toplam Generator Ağırlık (kg)	550
Sıcaklık Artış Sınıfı	H
Soğutma Havası (m ³ /dk)	32

Açık Jeneratör Boyutları

Uzunluk mm (ft)	2860
Genişlik mm	1300
Yükseklik mm (ft)	1777
Açık Gen.Set Brüt Ağırlık, Kuru kg	2320

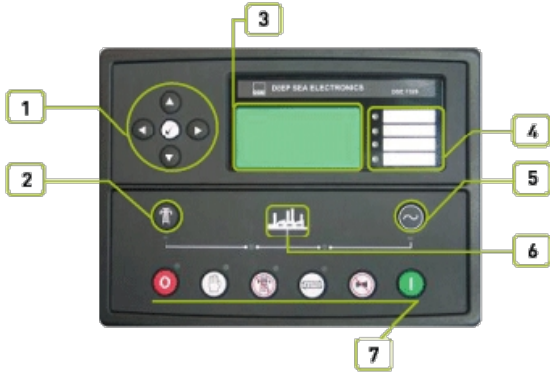
Kabin Özellikleri

Uzunluk mm (ft)	3960
Genişlik mm (ft)	1010
Yükseklik mm (ft)	2100
Kuru Ağırlık kg	2900
Yakıt Tank Kapasitesi (l)	N/A

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, gas 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 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



Opsiyonel Ekipmanlar

Motor

- Fuel-Water Separator Filter
- Oil heater

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 or manual 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

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
- 2004/108/EC : Electromagnetic Compatibility Directive
- 2006/95/EC : Low Voltage Directive

Standartlar

- EN ISO 8528-13:2016 : Reciprocating internal combustion engine-driven alternating current generating sets- Part:13: Safety

- Max load and overload ratings based on ISO 3046 gross flywheel power.
- Technical data based on ISO 3046-1 standards of 77°F(25°C), 14,5Psia (100kPa) and 30% relative humidity.
- Production tolerances in engines and installed components can account for power variations of $\pm 5\%$. Altitude, temperature and



excessive exhaust and intake restrictions should be applied to power calculations.

- All fuel and thermal calculations unless otherwise noted are done at ISO 3046 rated load using LHV for NG of 48,17 MJ/kg.
- At 0,5 in-H₂O of Package Restriction at STP
- Volume calculated using density of 0,717 kg/m³ for NG and 0,51 kg/L for LPG