



Ürün Hakkında

The new Twin Power series offers flexibility and performance like never before. With two gensets under one hood, it ensures backup and reliability twice. Two engines work in synchronization and back2back mode, which ensures a 24/7 power supply. The centralized control and monitoring system enables easy startup and commissioning. It provides savings in terms of total investment and operational costs to the customer.

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	928,0	1160	840.00	1050	1674

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	AD-TP 1160
Frekans (Hz)	50
Yakıt Tipi	Diesel
Motor Marka ve Modeli	Hyundai DP158LD x2
Alternatör Marka ve Modeli	Aksa AK 6450 x2
Kontrol Panel Modeli	InteliGen NT
Kabin Modeli	AK98 - 1160TP

Motor Özellikleri

Genel Bilgiler

Üretici	Hyundai
Motor Modeli	DP158LD
Silindir Sayısı / Tipi	8 cylinders - V type



Bore mm (in)	128
Stroke mm (in)	142
Hacim l (cu. In)	14.618
Sıkıştırma Oranı	15.0:1
Motor Hızı (rpm)	1500
Standby Güç (kW/hp)	510/693
Prime Güç (kW/hp)	464/630
Blok Isıtıcı (Adt)	1
Blok Isıtıcı Gücü (Watt)	3000
Governor Sistemi	Electronic
Hava Filtresi	Dry Type
Hava Emiş	Turbo Charged and Intercooled (Air to Air)

Yağlama Sistemi

Yağ Kapasitesi l (gal)	22
Maks. Yağ Sıcaklığı °C (F)	120

Yakıt Sistemi

Yakıt Tipi	Diesel
Enjeksiyon Tipi	Direct
Yakıt Pompa Tipi	WEIFU in-line "P" type

Elektrik Sistemi

Çalışma Voltajı (Vdc)	24 Vdc
Akü ve Kapasite (Adt/Ah)	2x120
Şarj Alternatörü (A)	45

Soğutma Sistemi

Soğutma Metodu	Water Cooled
Soğutma Suyu Kapasitesi (yalnızca motor)l (gal)	20

Egzoz Sistemi

Egzoz Gaz Debisi (m³/dk)	98
Egzoz Geri Basınç in-Hg (kPa)	5.9
Egzoz Gaz Sıcaklığı °C (F)	591
Egzoz Geçen Isı kW (BTU/min)	453.5

Radyatör

Toplam Soğutma Suyu Kapasitesi (l)	79.1
Soğutma Fan Hava Debisi m³/min (ft³/min)	700



Soğutma Havası Harici Direnç (Pa)

125

Yakıt Tüketimi

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

115.1

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

83.4

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

55.1

Alternator Özellikleri

Üretici

Aksa

Alternatör Model

AK 6450

Frekans (Hz)

50

Güç (kVA)

563

Voltaj (V)

400

Faz

3

A.V.R.

SX440

Voltaj Regülasyon

1

Yalıtım Sınıfı

H

Koruma Sınıfı

IP22

Nominal Güç Faktörü

0.8

Toplam Generator Ağırlık (kg)

1393

Soğutma Havası (m³/dk)

62.1

Kabin Özellikleri

Uzunluk mm

9000

Genişlik mm

2050

Yükseklik mm

2551

Yakıt Tank Kapasitesi (l)

1400

Kontrol Paneli

Üretici

Comap

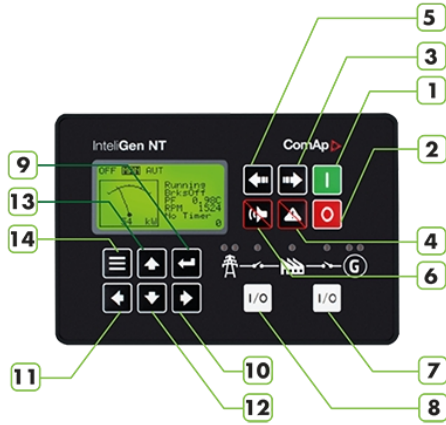
Kontrol Modül Modeli

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 with mechanical fan
- Protective grille for rotating and hot parts
- Electric starter and charge alternator



- Starting battery (with lead acid) including rack and cables
- Automatic synchronising and power control system (Multi gen-set Parallel)
- Engine coolant heater
- Base frame design incorporates an integral fuel tank and 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

Alternatör

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

Kontrol Paneli

- 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 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)

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