Over Product

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. For all generator groups produced, preliminary product testing and factory manufacturing testing are performed according to the Uptime Institute's Tier Standards.

Kracht (kVA)

3 Fasen,50 Hz, PF 0.8

Spanning	Stand-by vermogen (ESP)		DCP Rating		Standby Amper
	kW	kVA	kW	kVA	
400/231	2000,00	2500,00	1800,00	2250,00	3608,55

Stand-by vermogen (ESP) Het wordt gebruikt om te voldoen aan de variabele elektrische belastingvereiste in geval van uitval van de betrouwbare netvoeding. ESP voldoet aan ISO 8528-1 Overbelasting is niet toegestaan.

Prime Power (PRP) Wordt gedefinieerd als het continue bedrijfsvermogen onder variabele belasting. PRP voldoet aan ISO 8528-1 10% overbelasting kan elke 12 uur worden gedaan.

Data Center Continuous (DCC) Jeneratör setinin; güvenilir bir şebekenin varlığına ve kurulumunun sağlandığı yere bağlı olarak, mevcut elektrik yükü, sürekli ve sınırsız çalışma saatleri boyunca sağlayabileceği maksimum güçtür.

Algemene kenmerken

Modelnaam	AP2500
Frequentie (HZ)	50
Brandstoftype	Diesel
Motormerk en -model	PERKINS 4016-61TRG3
Alternatormerk en -model	ECO 46-1.5L/4 A
Configuratiescherm Model	InteliGen NT
Cabine	UNKNOWN

MOTORSPECIFICATIES

Motor	PERKINS
Motor model	4016-61TRG3
Silindir Sayısı (L)	16 cylinders - V type
Bore (mm.)	160
Stroke (mm.)	190
Silindir Hacmi (lt.)	61.123
Aspiratie	Turbo Charged
Compressieverhouding	13.0:1
Hız (d/dk)	1500
Olie capaciteit (Filtre Dahil) (lt)	213
Stand-by vermogen (kW/HP)	2183/2926,27
Prime Power (kW/HP) (kW/HP)	1975/2647,45
Blokverwarmingshoeveelheid	2
Blokkeer verwarmingsvermogen (Watt)	3000

Brandstoftype	Diesel
Injectietype en systeem	Direct
Type brandstofpomp	Mechanical
Governor-systeem	Electronic
Bedrijfsspanning (Vdc)	24 Vdc
Batterij en capaciteit (aantal / Ah)	4x143
Laaddynamo (A)	55
Koelmethode	Water Cooled
Koelventilatorluchtstroom (m³ / min)	3020
Koelvloeistofcapaciteit (alleen motor / met radiator) (lt)	/703.24
Luchtfilter	Dry Type
Brandstofverbruik bij eerste 100% belasting (lt / uur)	470
Brandstofverbruik primair 75% belasting (lt / uur)	349
Brandstofverbruik bij eerste 50% belasting (lt / uur)	246

Dynamo specificaties

Fabrikant	Mecc Alte
Alternatormerk en -model	ECO 46-1.5L/4 A
Frequentie (HZ)	50
Kracht (kVA)	2300
Spanning (V)	400
Fase	3
Automatische spanningsregelaar	DER1
Voltage regulatie	(+/-)0.5%
Isolatiesysteem	H
Bescherming	IP23
Nominale vermogensfactor	0.8
Gewicht dynamo (Kg)	4260
Koellucht (m³/min)	135

OPEN TYPE GENERATOR AFMETINGEN (mm)

Lengte	9000
Breedte	2800
Hoogte	3307
Droog gewicht (kg.)	14000

AFMETINGEN GENERATORKAST (mm)

Lengte	0
Breedte	0
Hoogte	0
Droog gewicht (kg.)	18000
Inhoud brandstoftank (lt.)	0

Over Product

No Data

Besturingskaart

Controle Module	Comap
Besturingsmodule model	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.

Apparaten

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

Structuur en verf

Comonents 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

Montage

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

Generator regeleenheid

195Vac to 264Vac input volt-age range

45Hz to 440Hz input supply frequency range

Capability to work direct from 240Vdc to 365Vdc sup-ply 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 continu-ously into short-circuit

Parallel connection for higher output current rating and redundant operation

Series connection capability for higher output voltage requirements

No cooling fans used for high operational reliability

Aluminum alloy case for ro-bust handling and easy mounting

Standaardfuncties

Comprehensive gen-set controller for both single and multiple gensets Parallel operation up to 32 gen-setsoperating in

standby or paralleling modes

To be used in conjunction with detachable colour displays InteliVision 5 or InteliVision 8

Support of engines with ECU (Electronic Control Unit)

Complete integrated gen-set solution and signal sharing via CAN bus – minimum external components needed

Many communication options – easy remote supervising and servicing

Load sharing and VAr sharing via CAN Virtual shared inputs and outputs via CAN Support of wide range of applications

Single or multiple gen-sets in parallel to mains operation with automatic back up function, multiple island operation

Advanced power management function

Customizable load control in parallel to mains

Wide range of ECU support

Highly configurable

Timers, Internal PLC, Force values and more

Active e-mail messaging and SMS with optional communication module

Stop, Manual, Automatic, Test, Start, Silent / Lamp test,

Automatic synchronization and power control AMF function, Baseload, Import / Export, Peak shaving, Voltage and PF kontrol (AVR)

True RMS (TRMS) is used with Voltage, Current and Power measurement

Meetindicatoren

ENGİNE

Engine Speed

Oil Pressure

Water Temperature

Engine Runing Hours

Battery Voltage

Maintenance Plan

GENERATOR

Voltage (L-L, L-N)

Current (L1-L2-L3)

Frequency

Earth leakage

kW

Power Factor

kVAr

kWh, kVAh, kVArh

MAINS

Voltage (L-L, L-N)

Frequency

PROTECTION CIRCUITS

Charge failure
Low Battery Voltage
Stop Failure
Low Fuel Level (ops)
Overload kW
Reverse phase sequence
PRE-ALARMS
Low Oil Pressure
High engine temperature
Low Engine Temperature
Low / High engine speed
Low / High generator frequency
Low / High generator voltage
ECU warning
STOP ALARMS
Start failure
Emergency stop
Low oil pressure
High engine temperature
Low water level
Low / High engine speed
Low / High generator frequency
Low / High generator voltage
Oil pressure sensor open circuit
Phase direction

Optie Kenmerken

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 InteliVision displays
Active e-mail messaging and SMS with communication modüle

Standaarden

EN 60068-2-6 ed.2:2008
EN 60068-2-30, May 2000

EN 61010-1:2003

EN 60068-2-27 ed.2:2010

EN 60068-2-64

VDE AR N 4105:2011; DIN VDE V 0124-100:2012 (Cl. 5.3.3, 5.3.4, 5.3.6, 5.4.3, 5.4.5, 5.4.6, 5.5)

BDEW Medium-Voltage Guideline: 2008; FGW TR3:2013 (Clauses 4.2.2, 4.2.3, 4.2.4, 4.3.2, 4.3.3, 4.3.4., 4.5, 4.6., 4.7)

Elektronische acculader

EBC 2405M is designed and opti-mized for charging all types of Lead Acid batteries (including jell type sealed Lead Acid batteries), protecting the battery and extend-ing its useful life time

EBC 2405M can deliver 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 life-time 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 reduces the excess heat dissipation and in return, increasing the device life-time 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 out-put current, when ever required.

Standaardfuncties

- Water cooled diesel engine
- Radiator and mechanical fan
- Protective cage to prevent rotating and touching hot parts
- Electric starter and charge alternator
- Battery (lead acid), cables and stand
- Engine block water heater
- Steel chassis and anti-vibration wedges
- Fuel tank separate from the group (Açıkset 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
- The frequency and voltage regulation of the groups lifts 100% load according to NFPA110 in accordance with ISO 8528-5.

Generator hardware-opties

Remote radiator cooling
Fuel-water separator filter
Oil heater
ALTERNATOR
Anti-condensation heater,
Bigger Power rate alternator
Output Breaker
CONTROL PANEL
Automatic synchronization and power control system (multiple parallel generator)
Continuous parallel system with the network
Network synchronization system
Remote communication and control
Remote alarm panel
Alarm output relays
Earth leakage, single generator
Charging ammeter
TRANSFER BOARD
Three or four-pole ATS system
Three or four-pole motorized output breaker
AUXILIARY EQUIPMENT
Main Fuel Tank
Automatic or manual fuel filling system
Oil drain, electric pump
Low and high fuel level alarm
Exhaust muffler, built-in type
Enclosure cabinet; soundproof type or open area type
Air duct adapter (radiator front)
Motorized roller shutter (air inlet and outlet circuit)
Soundproof duct (air inlet and outlet circuit)
Tool kit (for maintenance)
Maintenance kit for 1500/3000 working hours
Antifreeze and engine lubricating oil (for -30 ° C ambient temperature)

Certificaten

- ISO 14001-2004
- TS ISO 8528
- TS ISO 9001-2008
- CE
- SZUTEST
- 2000/14/EC