



Over Product

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.

Kracht (kVA)

3 Fasen, 50 Hz, PF 0.8

Spanning	Stand-by vermogen (ESP)		Prime Power (PRP)		Standby Amper
	kW	kVA	kW	kVA	
400/231	1680,00	2100,00	1500,00	1875,00	3031,18

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.

Algemene kenmerken

Modelnaam	APD 2100 M
Frequentie (HZ)	50
Brandstoftype	Diesel
Motormerk en -model	MITSUBISHI S16R-PTA2
Alternatormerk en -model	ECO 46-1L/4 A
Configuratiescherm Model	DSE 7320
Cabine	AK 99 - External Removable Silencer

MOTORSPECIFICATIES

Motor	MITSUBISHI
Motor model	S16R-PTA2
Silindir Sayısı (L)	16 cylinders - V type
Bore (mm.)	170
Stroke (mm.)	180
Silindir Hacmi (lt.)	65.37
Aspiratie	Turbo Charged and AfterCooled
Compressieverhouding	13.5:1
Hız (d/dk)	1500
Olie capaciteit (Filtre Dahil) (lt)	230
Stand-by vermogen (kW/HP)	1790/2399
Prime Power (kW/HP)	1630/2185
Blokverwarmingshoeveelheid	2
Blokkeer verwarmingsvermogen (Watt)	3000
Brandstoftype	Diesel
Injectietype en systeem	Direct
Type brandstofpomp	Mitsubishi PS8x2 (In-Line)
Governor-systeem	Electronic
Bedrijfsspanning (Vdc)	24 Vdc

De fabrikant behoudt zich het recht voor om zonder voorafgaande kennisgeving wijzigingen aan te brengen in het model, technische specificaties, kleur, uitrusting, accessoires en afbeeldingen. (01.02.2024)





Batterij en capaciteit (aantal / Ah)	4x143
Laaddynamo (A)	30
Koelmethode	Water Cooled
Koelventilatorluchtstroom (m ³ / min)	2040
Koelvloeistofcapaciteit (alleen motor / met radiator) (lt)	44.9/445
Luchtfilter	Dry Type
Brandstofverbruik bij eerste 100% belasting (lt / uur)	398.7
Brandstofverbruik primair 75% belasting (lt / uur)	305.1
Brandstofverbruik bij eerste 50% belasting (lt / uur)	216.2

Dynamo specificaties

Fabrikant	Mecc Alte
Alternatormerk en -model	ECO 46-1L/4 A
Frequentie (HZ)	50
Kracht (kVA)	2100
Spanning (V)	400
Fase	3
Automatische spanningsregelaar	DER1
Voltage regulatie	(+/-)0.5%
Isolatiesysteem	H
Bescherming	IP23
Nominale vermogensfactor	0.8
Gewicht dynamo (Kg)	3810
Koellucht (m ³ /min)	135

OPEN TYPE GENERATOR AFMETINGEN (mm)

Lengte	5223
Breedte	2245
Hoogte	2608
Droog gewicht (kg.)	13100
Inhoud brandstoftank (lt.)	2000

AFMETINGEN GENERATORKAST (mm)

Lengte	9000
Breedte	2800
Hoogte	3307
Droog gewicht (kg.)	18350
Inhoud brandstoftank (lt.)	2200

1. Steel structure made from steel sheet and steel profiles.
2. Canopy and panels made from powder coated sheet steel.





3. Emergency stop push button.
4. Control panel is mounted on the baseframe located at the back of the Generator set.
5. Cables out locations are back of the canopy.
6. Corrosion.resistant locks and hinges.
7. Oil could be drained via valve and a hose.
8. Exhaust system on the canopy.
9. Special large access doors for easy maintenance.
10. The cap on the canopy provides easy access to radiator cap.
11. Lifting points similar to ISO container, located on each top corner of the Canopy.
12. Sound proofing materials.
13. Fuel tank is at front of the canopy ,easy access to the fuel tank via lockable door.
14. Integrated ladder built in to side of the canopy allows access to the top of the canopy.

Over Product

Sound-attenuated and weather protective enclosures for generating sets from Aksa, meet even the sound requirements and provide optimum protection from inclement weather and development by our specialist acoustic engineers. Our modular designed sound insulated canopies provide ease of access for servicing and general maintenance and interchangeable components permitting on-site repair. Enclosures are designed to optimize genset cooling performance, providing you with confidence that genset ratings and ambient capability.

Besturingskaart

Controle Module	DSE
Besturingsmodule model	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

Apparaten

DSE, model 7320 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

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.

Standaardfuncties

Microprocessor controlled

- 132 x 64 pixel LCD display makes information easy to read
- Front panel programming and also via PC software
- Soft touch membrane keypad and five key menu navigation
- Remote communications via RS232, RS485 and ethernet.
- Event logging (50) showing date and time
- Multiple date and time engine exercise mode and maintenance scheduler
- Engine block heater control.
- Controls; stop, manuel, auto, test, start, mute lamb test/transfer to generator, transfer to mains, menu navigation.

Meetindicatoren

ENGINE

Engine speed

Oil pressure

Coolant temperature

Run time Battery volts

Engine maintenance due

GENERATOR

Voltage (L-L, L-N)

Current (L1-L2-L3)

Frequency

Earth current

kW

Pf

kVAr

kWh, kVAh, kVArh

Phase sequence

MAINS

Voltage (L-L, L-N)

Frequency

WARNING

Charge failure

Battery under voltage

Fail to stop

Low fuel level (opt.)

kW over load

Negative phase sequence



Loss of speed signal

PRE-ALARMS

Low oil pressure

High engine temperature

Low engine temperature

Over /Under speed

Under/over generator frequency

Under/over generator voltage

ECU warning

SHUT DOWNS

Fail to start

Emergency stop

Low oil pressure

High engine temperature

Low coolant level

Over /Under speed

Under/over generator frequency

Under/over generator voltage

Oil pressure sensor open

Phase rotation

ELECTRICAL TRIP

Earth fault

kW over load

Generator over current

Negative phase sequence

Optie Kenmerken

High oil temperature shut down

Low fuel level shut down

Low fuel level alarm

High fuel level alarm

EXPANSION MODULES

Editional LED module (2548)

Expension relay module (2157)

Expansion input module (2130)

Standaarden

Electrical Safety / EMC compatibility

BS EN 60950 Electrical business equipment

BS EN 61000-6-2 EMC immunity standard



BS EN 61000-6-4 EMC emission standard

Elektronische acculader

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.

Standaardfuncties

- 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
- 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
- Generators Sets' voltage and frequency regulation comply with ISO 8528-5
- Generators Sets' can take 100% load at one step according to NFPA110

Generator hardware-opties

ENGINE

Remote Radiator Cooling

Fuel-Water Separator Filter

Oil heater

ALTERNATOR

Anti-Condensation Heater

Main line circuit breaker

CONTROL SYSTEM

Automatic synchronising and power control system (multi gen-set Parallel)

Parallel system with mains.

Transition synchronization with mains





Remote relay output

Alarm output relays

Remote communication with modem

Earth fault, single set

Charge Ammeter

TRANSFER SWITCH

Three or four pole contactor

Three or four pole motor operated circuit breaker

OTHER ACCESSORIES

Main Fuel Tank

Automatic or manual fuel filling system

Residential silencer

Enclosure: weater protective or sound attenuated

Duct adapter (on radiator)

Inlet and outlet motorised louvers

Inlet and outlet acoustic baffles

Tool kit for maintenance

1500/3000 hours maintenance kit

Supplied with oil and coolant - 30 °C

Certificaten

- TS ISO 8528

- TS ISO 9001-2008

- CE

- SZUTEST

- 2000/14/EC

