



Einführung

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.

Leistung

3 Phase, 60 Hz, PF 0.8

Spannung (V)	Bereitschaftsleistung (ESP)		Primärleistung		Standby-Strom
	kW	kVA	kW	kVA	
380 / 220	132,0	165	120.00	150	251
480 / 277	152,0	190	136.00	170	229
208 / 120	132,0	165	120.00	150	458

„STANDBY-RATING (ESP) Gilt für die Stromversorgung wechselnder elektrischer Lasten für die Dauer einer Stromunterbrechung einer zuverlässigen Versorgungsquelle. ESP entspricht ISO 8528-1. Überlast ist nicht erlaubt.“

PRIME RATING (PRP) Gilt für die Stromversorgung unterschiedlicher elektrischer Lasten für unbegrenzte Stunden. PRP entspricht ISO 8528-1. 10 % Überlast ist für einen Zeitraum von 1 Stunde innerhalb eines 12-stündigen Betriebszeitraums verfügbar.

Allgemeine Charakteristiken

Modellname	AP 190-6
Frequenz (Hz)	60
Treibstoffart	Diesel
Motor Marke und Modell	Perkins 1106A-70TAG2
Marke und Modell des Generators	Mecc Alte ECP 34-1L/4 C
Steuerung Modell	DSE 6020
Schalldämmhaube	AK 49

Motorspezifikationen

Allgemeine Daten

Hersteller	Perkins
Motor Modell	1106A-70TAG2



Anzahl der Zylinder	6 cylinders - in line
Bohrung (mm)	105
Hub (mm.)	135
Hubraum (lt.)	7.01
Kompressionsrate	18.2:1
Motorumdrehungen (U/min)	1800
Standby-Leistung (kW/PS)	171.8/230.38
Prime Leistung (kW/PS)	155.4/208.39
Kühlwasservorwärmung Anzahl	1
Kühlwasservorwärmung (Watt)	1500
Drehzahlregelung	Mechanic
Luftfilter	Dry Type
Ansaugung	Turbo Charged and Charge Air Cooled

Schmiersystem

Ölkapazität (lt)	18
Max. Öltemperatur (°C)	125

Kraftstoffsystem

Treibstoffart	Diesel
Injektionsart und -system	Mechanic
Typ der Kraftstoffpumpe	DP210G

Elektrisches System

Betriebsspannung (Vdc)	12 Vdc
Lichtmaschine	65

Kühlsystem

Kühlungsmethode	Water Cooled
	9.5

Abgassystem

Abgasstrom (m³/min.)	32,29
Abgastemp. (C)	407
Wärmeabgabe an das Abgas	120.6

Kühler

Gesamtkühlmittelkapazität (lt)	21
Luftstrom des Kühlgebläses (m³/min.)	250



Externe Einschränkung des Kühlluftstroms (Pa)	125
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Kraftstoffverbrauch

Kraftstoffverbrauch Prime mit 100 % Leistung (l/h)	38.2
Kraftstoffverbrauch Prime mit 75 % Leistung (l/h)	29.1
Kraftstoffverbrauch Prime mit 50 % Leistung (l/h)	19.1

Eigenschaften des Generators

Hersteller	Mecc Alte
Generatormodell	ECP 34-1L/4 C
Frequenz (Hz)	60
Leistung (kVA)	180
Spannung (V)	480
Phase	3
Regler	DSR
Spannungsregulierung	1
Isoliersystem	H
Schutz	IP23
Nennleistungsfaktor	0.8
Gewicht kompletter Generator (kg)	423
Temperaturerhöhungs-Klasse	H
Kühlungsluft (m³/min)	29.2

Abmessungen des offenen Aggregates

Länge (mm)	2300
Breite (mm)	1080
Höhe (mm)	1629
	1380
Tankinhalt (lt.)	340

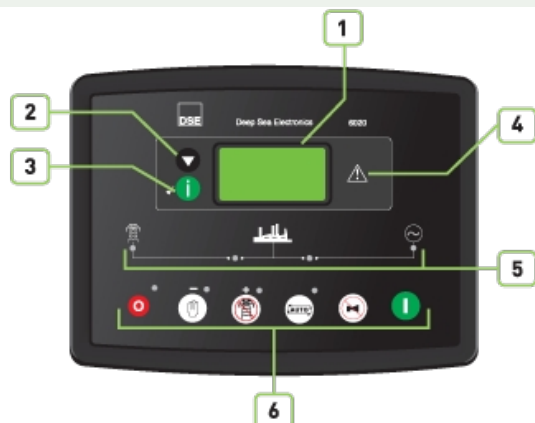
Eigenschaften der Schalldämmhaube

Länge (mm)	3404
Breite (mm)	1136
Höhe (mm)	2020
Trockengewicht (kg.)	1975
Tankinhalt (lt.)	340



Steuerung

Hersteller	DSE
Steuerungsmodul Modell	DSE 6020
Kommunikationsanschlüsse	N/A



1. Main status display.
2. Display scroll button.
3. Page(information) button.
4. Common alarm indicator.
5. Status LED's.
6. Operation selecting buttons.

Standardgeräte

- DSE, model 6020 Auto Mains Failure control module.
- Battery charger input 198-264 volt, output 27,6 V 5 A (24 V) or 13,8 Volt 5A (12V)
- Emergency stop push button and fuses for control circuits.

Steuergerät

The DSE 6020 is a standard control module for our generator sets up to 200kVA and it has been designed to start and stop diesel and gas generator sets.

The DSE 6020 module has been designed to monitor generator frequency, volt, current, engine oil pressure, coolant temperature running hours and battery volts.

Module monitors the mains supply and switches over to the generator when the mains power fails.

The DSE6020 also indicates operational status and fault conditions, Automatically shutting down the Gen. Set and giving true first-up fault condition of Gen. Set failure. The LCD display indicates the fault.

Bau und Fertigstellung

- Components installed in a sheet steel enclosure. Phosphate chemical, pre-coating of steel provides corrosion resistant surface. Polyester composite powder topcoat forms a high gloss and extremely durable finish. Lockable and hinged panel door provides easy access to components.

Installation

Control panel is mounted on baseframe with steel stand. Located at the right side of the generator set (When you look at the Gen.Set. from Alternator)



Optionen

- Flexible sensor can be controlled with temperature, pressure, percentage (warning/shutdown/electrical trip)
- Local setting parameters and monitoring from PC to control module with USB connection (max 6 mt).

Compliance-Liste des Control Panels

- 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

Statisches Batterieladegerät

- 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 and output is 5 amper, 13,8 V for 12 volt and 27,6 V for 24 V . Input 198 - 264 volt AC. Proline 2405 has fully output short circuit protection and it can be used as a current source. Proline 1205/2405 charger has high efficiency, long life, low failure rate, lightweight and low heat radiated in accordance with linear alternatives. The charger is fitted with a protection diode across the output. Connect charge fail relay coil between the positive output and CF output. They are equipped with RFI filter to reduce electrical noise radiated from the device. Galvanically isolated input and output typically 4kV for high reliability.

Standard Ausrüstung

- 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

Optionale Ausrüstung

Motor

- Fuel-Water Separator Filter
- Oil heater

Generator

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

Steuerung

- Automatic synchronising and power control system (Multi gen-set Parallel)
- Parallel system with mains
- Transition synchronization with mains

Transferpanel

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



- Alarm output relays
- Earth fault, single set
- Parallel system with mains
- Remote relay output
- Remote communication with modem
- Charge Ammeter

Zusatzausrüstung

- 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)

Gehäuse

- Galvanized Coating
- ISO Container
- Marine Grade Paint

Auspuff

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

Optionales Generatorsteuerfeld

Please contact to your reseller for additional Alternator, Control Panel and Breaker Switch options.

Aksa-Zertifikate**Richtlinie**

- 2006/42/EC : Machinery Safety Directive
- 2014/30/EU : Electromagnetic Compatibility Directive
- 2014/35/EU : Low Voltage Directive

Standards

- 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