



## Einführung

The GreenTech Series is a sustainable generator solution designed to reduce environmental impact through alternative fuel compatibility, low emission levels, and reduced noise output. With HVO fuel support and advanced exhaust and safety systems, it ensures compliance with environmental standards and significantly reduces carbon emissions. The GreenTech Series offers lifecycle performance certified by EPD and LCA. Through the use of recycled and bioplastic materials, hybrid-ready infrastructure, and environmentally conscious production processes, the GreenTech Series contributes to long-term sustainability goals.

(Image is for illustrative purposes only.)

## Leistung

3 Phase, 50 Hz, PF 0.8

| Spannung (V) | Bereitschaftsleistung (ESP) |     | Primärleistung |     | Standby-Strom |
|--------------|-----------------------------|-----|----------------|-----|---------------|
|              | kW                          | kVA | kW             | kVA |               |
| 400 / 231    | 264,0                       | 330 | 240.0          | 300 | 476           |

„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 330 - GTS            |
| Frequenz (Hz)                   | 50                      |
| Treibstoffart                   | Diesel                  |
| Motor Marke und Modell          | Perkins 1506A-E88TAG5   |
| Marke und Modell des Generators | Mecc Alte ECO 38-1L/4 C |
| Steuerung Modell                | DSE 7320                |
| Schalldämmhaube                 | GTS 20                  |
| Lärmpegel @1m./@7m. (dB(A))     | 83.3 / 74..2            |

## Motorspezifikationen

### Allgemeine Daten

|            |         |
|------------|---------|
| Hersteller | Perkins |
|------------|---------|

Der Hersteller behält sich das Recht vor, ohne vorherige Ankündigung Änderungen an Modell, technischen Spezifikationen, Farbe, Ausstattung und Zubehör vorzunehmen.

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|                             |                                |
|-----------------------------|--------------------------------|
| Motor Modell                | 1506A-E88TAG5                  |
| Anzahl der Zylinder         | 6 cylinders - in line          |
| Bohrung (mm)                | 112                            |
| Hub (mm.)                   | 149                            |
| Hubraum (lt.)               | 8.8                            |
| Kompressionsrate            | 16.1:1                         |
| Motorumdrehungen (U/min)    | 1500                           |
| Standby-Leistung (kW/PS)    | 307/411.52                     |
| Prime Leistung (kW/PS)      | 281/376.67                     |
| Kühlwasservorwärmung Anzahl | 1                              |
| Kühlwasservorwärmung (Watt) | 3000                           |
| Drezahlregelung             | ECM                            |
| Luftfilter                  | Dry Type                       |
| Ansaugung                   | Turbo Charged and After Cooled |

#### Schmiersystem

|                        |     |
|------------------------|-----|
| Ölkapazität (lt)       | 41  |
| Max. Öltemperatur (°C) | 120 |

#### Kraftstoffsystem

|                           |        |
|---------------------------|--------|
| Treibstoffart             | Diesel |
| Injektionsart und -system | Direct |
| Typ der Kraftstoffpumpe   | HEUI   |

#### Elektrisches System

|                                   |        |
|-----------------------------------|--------|
| Betriebsspannung (Vdc)            | 24 Vdc |
| Batterie und Kapazität (Menge/Ah) | 2x85   |
| Lichtmaschine                     | 45     |

#### Kühlsystem

|                 |              |
|-----------------|--------------|
| Kühlungsmethode | Water Cooled |
|                 | 13.9         |

#### Abgassystem

|                          |      |
|--------------------------|------|
| Abgasstrom (m³/min.)     | 45.1 |
| Abgasgegendruck (kPa)    | 10   |
| Abgastemp. (C)           | 561  |
| Wärmeabgabe an das Abgas | 202  |



## Kühler

|                                               |      |
|-----------------------------------------------|------|
| Gesamtkühlmittelkapazität (lt)                | 33.2 |
| Luftstrom des Kühlgebläses (m³/min.)          | 370  |
| Externe Einschränkung des Kühlluftstroms (Pa) | 125  |

## Kraftstoffverbrauch

|                                                    |      |
|----------------------------------------------------|------|
| Kraftstoffverbrauch Prime mit 100 % Leistung (l/h) | 64.9 |
| Kraftstoffverbrauch Prime mit 75 % Leistung (l/h)  | 48.2 |
| Kraftstoffverbrauch Prime mit 50 % Leistung (l/h)  | 33   |

## Eigenschaften des Generators

|                                   |               |
|-----------------------------------|---------------|
| Hersteller                        | Mecc Alte     |
| Generatormodell                   | ECO 38-1L/4 C |
| Frequenz (Hz)                     | 50            |
| Leistung (kVA)                    | 300           |
| Spannung (V)                      | 400           |
| Phase                             | 3             |
| Regler                            | DSR           |
| Spannungsregulierung              | 1             |
| Isoliersystem                     | H             |
| Schutz                            | IP23          |
| Nennleistungsfaktor               | 0.8           |
| Gewicht kompletter Generator (kg) | 771           |
| Kühlungsluft (m³/min)             | 32            |

## Abmessungen des offenen Aggregates

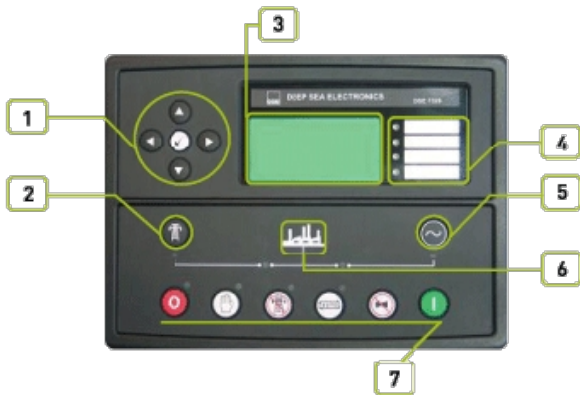
|                  |      |
|------------------|------|
| Länge (mm)       | 2750 |
| Breite (mm)      | 1300 |
| Höhe (mm)        | 1760 |
|                  | 2385 |
| Tankinhalt (lt.) | 470  |

## Eigenschaften der Schalldämmhaube

|                      |      |
|----------------------|------|
| Länge (mm)           | 5000 |
| Breite (mm)          | 2200 |
| Höhe (mm)            | 2468 |
| Trockengewicht (kg.) | 3065 |
| Tankinhalt (lt.)     | 850  |

## Steuerung

|                          |          |
|--------------------------|----------|
| Hersteller               | DSE      |
| Steuerungsmodul Modell   | DSE 7320 |
| Kommunikationsanschlüsse | 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

## Standardgeräte

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

## Steuergerät

- 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.

## Bau und Fertigstellung

- 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

## Installation

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

### Abschaltung

- Fail to start
- Emergency stop
- Low oil pressure

### Warnungen

- Charge failure
- Battery under voltage
- Fail to stop



- Run time
- Battery volts
- Engine maintenance due

- High engine temperature
- Low coolant level
- Under/over speed
- Under/over generator frequency
- Under/over generator voltage
- Oil pressure sensor open
- Phase rotation

- Low fuel level (opt.)
- kW over load
- Negative phase sequence
- Loss of speed signal

## Generator

- Voltage (L-L, L-N)
- Current (L1-L2-L3)
- Frequency
- Earthcurrent
- kW
- Pf
- kVAr
- kWh, kVAh, kVAh
- Phasesequence

## Warnung

- Low oil pressure
- High engine temperature
- Low engine temperature
- Under/over speed
- Under/over generator frequency
- Under/over generator voltage
- ECU warning

## Elektrische Auslösung

- Earth fault
- kW over load
- Generator over current
- Negative phase sequence

## Netz

- Voltage (L-L, L-N)
- Frequency

## Erweiterungen

- Additional LED module (2548)
- Expansion relay module (2157)
- Expansion input module (2130)

## Optionen

- High oil temperature shut down
- Low fuel level shut down
- Low fuel level alarm
- High fuel level alarm

## Compliance-Liste des Control Panels

- 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

## 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
- 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.

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

### Transferpanel

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

### Zusatz-ausrüstung

- 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)

### Auspuff

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

### Gehäuse

- Galvanized Coating
- ISO Container
- Marine Grade Paint

### 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