

Introduction

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.

Power

3 Phase,50 Hz, PF 0.8

Voltage (V)	STANDBY RATING (ESP)		PRIME RATING (PRP)		STANDBY CURRENT (A)
	kW	kVA	kW	kVA	
400 / 231	52.8	66	48.0	60	95

STANDBY RATING (ESP) Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source. ESP is in accordance with ISO 8528-1. Overload is not allowed.

PRIME RATING (PRP) Applicable for supplying power to varying electrical load for unlimited hours. PRP is in accordance with ISO 8528-1. 10 % overload capability is available for a period of 1 hour within 12-hour period of operation.

General Characteristics

Model Name	AC 66 - GTS
Frequency (Hz)	50
Fuel Type	Diesel
Engine Make and Model	Cummins 4BTAA3.3-G13
Alternator Make and Model	Mecc Alte ECP 32-2M/4 C
Control Panel Model	DSE 8610
Canopy	GTS 10

Engine Specifications

General Data

Manufacturer	Cummins
Engine Model	4BTAA3.3-G13

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Number of Cylinders / Type	4 cylinders - in line
Bore mm (in)	95
Stroke mm (in)	115
Displacement l (cu. In)	3.3
Compression Ratio	19.0:1
Engine Speed (rpm)	1500
Standby Power (kW/hp)	63/84
Prime Power (kW/hp)	58/78
Block Heater (QTY)	1
Block Heater Power (Watt)	500
Governor System	Electronic
Air Filter	Dry Type
Aspiration	Turbo Charged and Charge Air Cooled

Lubrication System

Oil Capacity l (qal)	7.9
Max. Oil Temperature ºC (F)	120

Fuel System

Fuel Type	Diesel
Injection Type	Bosch Mechanical
Type of Fuel Pump	N/A

Electrical System

Operating Voltage (Vdc)	24 Vdc
Battery and Capacity (Qty/Ah)	2x55

Cooling System

Cooling Method	Water Cooled
Coolant Capacity (engine only) l (gal)	5

Exhaust System

Exhaust Gas Flow (m^3/min)	10.68
Exhaust Back Pressure in-Hg (kPa)	10
Exhaust Gas Temperature ºC (F)	491
Heat Rejection to Exhaust kW (BTU/min)	45

Radiator

External Restriction to Cooling Airflow (Pa)	125

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Fuel Consumption

Fuel Cons. @100% Prime Load l/h (kg/h)	14
Fuel Cons. @75% Prime Load l/h (kg/h)	11
Fuel Cons. @50% Prime Load l/h (kg/h)	7

Alternator Characteristics

Manufacturer	Mecc Alte
Alternator Model	ECP 32-2M/4 C
Frequency (Hz)	50
Power (kVA)	62.5
Voltage (V)	400
Phase	3
A.V.R.	DSR
Voltage Regulation	1
Insulation Class	H
Protection Class	IP23
Rated Power Factor	0.8
Weight Complete Generator (kg)	212
Temperature Rise Class	H
Cooling Air (m³/min)	15.7

Open Generator Set Dımensıons

Length mm	2150
Width mm	1050
Height mm	1516
Open Gen.Set Gross Weight Dry kg	1070
Full Tank Capacity (l)	240

Canopy Characteristics

Length mm	2760
Width mm	1100
Height mm	1641
Dry Weight kg	1320
Full Tank Capacity (l)	240

Control Panel

Manufacturer	DSE

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Control Module Model	DSE 8610
Communication Ports	MODBUS



- Menu navigation buttons
- Close mains button
- Main Status and instrumentation display
- Alarm LED's
- Close generator button
- Status LED's
- Operation selecting buttons

Standard Devices

The DSE8610 is an easy to use multi-generator loadshare system, designed to synchronise up to 32 generators including electronic and non-electronic engines.

Control Unit

The DSE8610 monitors the generator and indicates operational status and fault conditions, automatically starting or stopping the engine on load demand or fault condition System alarms are annunciated on the LCD screen (multiple language options available), illuminated LED and audible sounder. The event log will record 250 events to facilitate easy maintenance. An extensive number of fixed and flexible monitoring, metering and protection features are included as well as comprehensive communication and system expansion options.

Construction and Finish

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

Control panel is mounted inside the container base frame on robust free-standing located at the side of generating set with properly panel visibility.

Options

High oil temperature - Shutdown
Low fuel level - Shutdown
Low fuel level - Alarm

Control Panel Compliance List

ELECTRO MAGNETIC COMPATIBILITYBS EN 61000-6-2
EMC Generic Immunity Standard for the

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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

industrial Environment
BS EN 61000-6-4
EMC Generic Emission Standard for the industrial Environment

ELECTRICAL SAFETY
BS EN 60950
Safety of Information Technology Equipment, including Electrical Business Equipment

TEMPERATURE
BS EN 60068
Ab/Ae Cold Test -30oC
BS EN 60068-2-2
Bb/Be Dry Heat +70oC

VIBRATION
BS EN 60068-2-6
Ten sweeps in each of three major axes
5Hz to 8Hz @ +/-7.5mm, 8Hz to 500Hz @ 2gn

HUMIDITY
BS EN 60068-2-30
Db Damp Heat Cyclic 20/55oC @ 95% RH 48 Hours
BS EN 60068-2-78
Cab Damp Heat Static 40oC @ 93% RH 48 Hours

SHOCK
BS EN 60068-2-27
Three shocks in each of three major axes 15gn in 11mS
DEGREES OF PROTECTION PROVIDED BY ENCLOSURES BS EN 60529
IP65 - Front of module when installed into the control panel with the supplied sealing gasket.

Static Battery Charger

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 full output short circuit protection and ıt can be used as a current source.
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.
Charge fail output is available.
Connect charge fail relay coil between the positive output and CF output.
Input: 196-264V.
Output: 27,6V 5A or 13,8V 5A.

Standard Equipment

- Water cooled, Diesel engine
- Radiator with mechanical fan
- Protective grille for rotating and hot parts
- Electric starter and charge alternator

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- 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
- Automatic synchronising and power control system (Multi gen-set Parallel)
- Industrial exhaust silencer and steel bellows supplied separately(for open sets)
- Static battery charger
- Manual for application and installation

Aksa Certificates

Directive

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

Standarts

- 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

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