

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	440.0	550	400.0	500	794

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 550 - GTS
Frequency (Hz)	50
Fuel Type	Diesel
Engine Make and Model	Cummins KTA19-G4
Alternator Make and Model	Stamford HCI544C
Control Panel Model	InteliMains NT
Canopy	GTS 20
Noise Level @1m , @7m (dB(A))	85 / 76.7

Engine Specifications

General Data

Manufacturer	Cummins

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Engine Model	KTA19-G4
Number of Cylinders / Type	6 cylinders - in line
Bore mm (in)	159
Stroke mm (in)	159
Displacement l (cu. In)	18.9
Compression Ratio	13.9:1
Engine Speed (rpm)	1500
Standby Power (kW/hp)	504/675
Prime Power (kW/hp)	448/600
Block Heater (QTY)	1
Block Heater Power (Watt)	3000
Governor System	Electronic
Air Filter	Dry Type
Aspiration	Turbo Charged and After Cooled

Lubrication System

Oil Capacity l (qal)	50
Max. Oil Temperature ºC (F)	121

Fuel System

Fuel Type	Diesel
Injection Type	Direct
Type of Fuel Pump	Cummins PT

Electrical System

Operating Voltage (Vdc)	24 Vdc
Battery and Capacity (Qty/Ah)	2x120

Cooling System

Cooling Method	Water Cooled
Coolant Capacity (engine only) l (gal)	30

Exhaust System

Exhaust Gas Flow (m³/min)	96.24
Exhaust Gas Temperature ºC (F)	557
Heat Rejection to Exhaust kW (BTU/min)	361

Radiator

Total Coolant Capacity (l)	120
External Restriction to Cooling Airflow (Pa)	125

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Fuel Consumption

Fuel Cons. @100% Prime Load l/h (kg/h)	107
Fuel Cons. @75% Prime Load l/h (kg/h)	82
Fuel Cons. @50% Prime Load l/h (kg/h)	57

Alternator Characteristics

Manufacturer	Stamford
Alternator Model	HCI544C
Frequency (Hz)	50
Power (kVA)	500
Voltage (V)	400
Phase	3
A.V.R.	AS440
Voltage Regulation	1
Insulation Class	H
Protection Class	IP23
Rated Power Factor	0.8
Weight Complete Generator (kg)	1263
Temperature Rise Class	H
Cooling Air (m³/min)	62.1

Open Generator Set Dımensıons

Length mm	3205
Width mm	1550
Height mm	2091
Open Gen.Set Gross Weight Dry kg	3850
Full Tank Capacity (l)	850

Canopy Characteristics

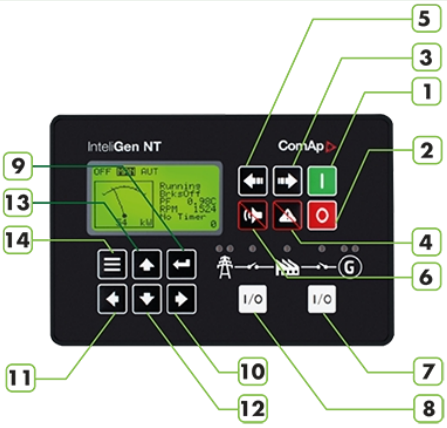
Length mm	5000
Width mm	2200
Height mm	2468
Dry Weight kg	4860
Full Tank Capacity (l)	850

Control Panel

Manufacturer	Comap

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Control Module Model	InteliMains NT
Communication Ports	CANBUS



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.

Standard Devices

- 6 Binary Outputs
- 6 Binary Inputs
- Mains and Bus Voltage measurement (3-phase)
- Mains Current measurement (3-phase)
- Auxiliary Current measurement (1-phase)
- RS485 Communication port for universal use
- RS232 Communication port
- CAN1 Communication port (for extension modules)
- CAN2 Communication port (for intercontroller communication and monitoring)

Control Unit

InteliMains-NT controller is comprehensive mains supervision controller for multiple generating sets operating in parallel to the Mains. A modular construction allow upgrades to different levels of complexity in order to provide the best solution for various customer applications.
NT Family controllers are equipped with a powerful graphic display showing icons, symbols and bargraphs for intuitive operation, which sets, together with high functionality, new standards in Gen-setcontrols.
The controller automatically connects and synchronizes two parts of bus bar and controls the bus tie circuit breaker (BTB).

Construction and Finish

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

Installation

Prepare the screw holders
Locate four sockets for screw holders
Insert the unit into cut-out in a switchboard and insert all four screw holders accordingly to their positions
Tighten as required to fix the controller in the position

Standard Specifications

- BTB controlled by InteliMains-NT
- Highly customizable behavior of breaker control (dead bus, blockation of closing etc.)

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• Synchronization (voltage and phase matching) of two control groups separated by InteliMainsBTB with various settings (which group synchronizes to which etc.)
• Load shedding control (based on power transferred via BTB)
• Full PLC logic included (useful in complex systems – BTB can for example serve as auxiliary PLC for other controllers)
• Support of redundancy controller
• Full set of protections for BusL and additional protections for BusR
• Group Link function
• Active calls and SMS

Options

8 Binary inputs and 8 Binary outputs packed in a smallunit (HWswitchable to IO16/0)
16 Binary inputs packed in a smallunit (HWswitchable to IO8/8)
8 Analog inputs and 1 pulse/frequency input in a smallunit
8 Thermocouple Analog inputs in a smallunit
8 Analog inputs packed in a rugged metalunit
8 Binary inputs, 8 Binary outputs, 4 Analog inputs and 1 Analog output in a unit
15 Binary LEDoutput (3 colors)packed in a rugged metalunit
8 Analog outputs packed in a rugged metalunit
Multiple Internet connections (PCand Modbus)to allcontrollers on CAN2 orRS485
Direct connection (PC)to allcontrollers on CAN2 orRS485

Control Panel Compliance List

• EN 60068-2-6 ed.2:2008
• EN 60068-2-27 ed.2:2010
• EN 60068-2-30, May2000
• EN 60068-2-64 EN 61010-1:2003

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 fully 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
- Starting battery (with lead acid) including rack and cables

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- 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

Optıonal Equıpment

Engine

- Fuel-Water Seperator Filter
- Oil heater

Alternator

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

Control Panel

- 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

Transfer Panel

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

Auxiliary Equipment

- 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)

Exhaust

- Residential Silencer
- Silencer Spark Arrester
- Critical Silencer
- Catalytic Convertor

Canopy

- Galvanized Coating
- ISO Container
- Marine Grade Paint

Optional Alternator and Control Panel

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

Aksa Certificates

Directive

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

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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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