

SCANIA	CGT Stamford	Generator	LID CCEOOC EO
DC12 59A 10-34A	HCI 554 C1	model:	UP-SC500S-50

50Hz	2 Phone	Power Factor
50H2	3-Phase	Cos Φ = 0.8

MODEL	UP-SC500S-50
Standby Power(50Hz)	400kW / 500kVA
Prime Power(50Hz)	360kW / 450kVA

Key Features:

- Engine (SCANIA DC12 59A 10-34A)
- Radiator 50°C max. fans are driven by belt, with safety guard
- 24V charge alternator
- Alternator: single bearing alternator IP 23, insulation class H/H
- Absorber
- Dry type air filter, fuel filter, oil filter, coolant filter
- Main line circuit breaker
- · Standard control panel
- Two 12V batteries, rack and cable
- Ripple flex exhaust pipe, exhaust siphon, flange, muffler
- User manual

Sample drawing



Generator Ratings

Voltage	Standby Amps	Standby Ratings	Prime Ratings
		(kW/kVA)	(kW/kVA)
440/254	656	400/500	360/450
415/240	695	400/500	360/450
400/230	721	400/500	360/450
380/220	759	400/500	360/450

Prime Power (PRP): Prime power is available for an unlimited number of annual hours in variable load application, in accordance with ISO8528. A 10% overload capability is available for a period of 1 hour within a 12-hour period of operation.

Standby Power Rating (ESP): The standby power rating is applicable for supplying emergency power for the duration of a utility power interruption. No overload, utility parallel or negotiated outage operation capability is available at this rating.



Warranty

Universal Power provides a full line of brand new and high quality products. Each and every unit is strictly factory tested.

Standard warranty conditions; 15 months from date of sale to the first buyer or, one year after installation; or, 1000 running hours (accumulated); whichever comes first.

Service and parts are available from Universal Power or distributors in your area.

ENGINE DATA

Manufacturer / Model: SCANIA DC12 59A 10-34A, 4-cycle

Air Intake System: Turbo, Air/Air Cooling

Fuel System: Elec. Injection

Cylinder Arrangement: 6 in line

Displacement: 11.7L

Bore and Stroke: 127×154 (mm)

Compression Ratio: 16:1

Rated RPM: 1500rpm

Max. Standby Power at Rated RPM: 437kW

Governor Type: EMS

Exhaust System

Exhaust Gas Flow: 37kg/min

Exhaust Temperature: 578°C

Max Back Pressure: 10kPa

Air Intake System

Max Intake Restriction: 5kPa

Burning Capacity: 32Kg/min

Air Flow: 480m³/min

Fuel System

100%(Prime Power) Load: 201 g/kWh

75%(Prime Power) Load: 208 g/kWh

50%(Prime Power) Load: 207 g/kWh

100%(Prime Power) Load: 90.8L/h



Oil System

Oil Consumption: <0.3 g/kWh

Engine Oil Tank Capacity: 33L

Oil Pressure at Rated RPM: 300-600kPa

Cooling System

Engine Coolant Capacity: 63L

Thermostat: 75°C

Max Water Temperature: 105°C

ALTERNATOR SPECIFICATION

General Data

Compliance with GB755, BS5000, VDE0530, NEMAMG1-22, IED34-1, CSA22.2 and AS1359 standards.

Alternator Data	CGT Stamford HCI 554 C1
Number of Phase:	3
Connecting Type:	3 Phase and 4 Wires, "Y" type connecting
Number of Bearing:	1
Power Factor:	0.8
Protection Grade:	IP23
Altitude:	≤1000m
Exciter Type:	Brushless, self-exciting
Insulation Class, Temperature Rise:	H/H
Telephone Influence Factor (TIF):	<50
THF:	<2%
Voltage Regulation, Steady State:	≤±1%
Alternator Capacity:	500KVA
Alternator Efficiencies:	93.8%
Air Cooling Flow:	1.035m³/s

GENERATOR DATA



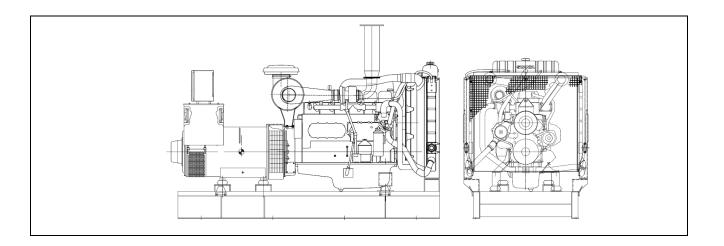


	Volta	ge R	egulation:		≥±5%
	Voltage Regulation	n, Ste	ead State:		≤±1%
S	Sudden Voltage Warp (100% Su	dden	Reduce):		≤ + 20%
	Sudden Voltage Warp (Sud	den I	ncrease):		≤-15%
	Voltage Stable Time (100% Suc	dden	Reduce):		≤4S
	Voltage Stable Time (Suc	dden	Increase)	≤4S	
	Frequency Regulation	n, Ste	ead State:	≤5%	
	Freq	uenc	y Waving:	≤0.5%	
Sud	den Frequency Warp (100% Su	dden	Reduce):		≤+10%
	Sudden Frequency Warp (Sud	den I	ncrease):	≤-7%	
Frequ	ency Recovery Time (100% Su	dden	Reduce):	≤3S	
Frequency Recovery Time (Sudden Increase):		ncrease):		≤3S	
		STA	NDARD FEAT	URI	ES
	"COMAP" Standard Auto Co "Deepsea" Auto Control System		System or		Starting batteries (Maintenance-Free) with connective wires
	Permanent Magnet Generator	(PM	G)		Exhaust system
	Oil Drain Valve				Water Separator
	Documents				Engine Heater
	Battery Charger				
			OPTIONS		
	Daily Fuel Tank		Rainproof Type		□ Remote Control Panel
	Alternator Heater		Soundproof Type	е	□ Paralleling System
	Spare Parts		Trailer Type		□ Switch box

□ Automatic Transfer Switch



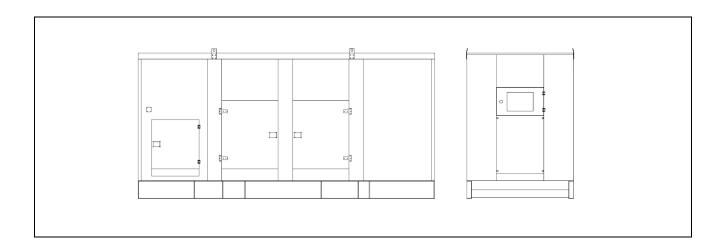
DIMENSION & WEIGHT



Standard Configuration (Open Type)

Overall Size: 3280(mm)×1270(mm)×1930(mm)

Weight: 2770kg



Soundproof Type

Overall Size: 4630(mm)×1660(mm)×2250(mm)

Weight: 3800kg



CONTROL PANELS

Automatic Control



Auto Module Control Panel is the configuration for nobody on duty controlling generators. This kind of panel adopts auto module control system, with large LCD display to show the menu.

Features: MRS10-can receive remote output signal from ATS and realize auto start and stop of generators.

MRS16-can realize all functions of MRS10, add RS232 interface which can communicate with PC to realize remote operation.

AMF25-Auto Mains Failure controller, can realize all functions of MRS16, furthermore can detect ATS and control directly.





The DSE 7310 & 7320 control systems provide complete power monitoring and protection facilities including: Pre-alarms for Low Oil Pressure and High Coolant Temperature, Digital display of kW, kVA and Power Factor, Under/Over Volts protection, Over Current Protection, Full RS485 Telemetry implementation as well as full SAE J1939 CANBus implementation. In fact, all generating sets driven by engines with onboard ECU/CANBus come with this system as standard. The DSE 7320 provides full AMF functionality with integrated mains monitoring and generator/mains contactor control



Automatic Parallel Control



Automatic Parallel Control Panel This new automatic parallel system adopts intelligent modules, inserted and folded installed, no need the peripheral relay and logic circuit. The main switch adopts electronic breaker or frame breaker, combined together with the generator, which is very reliable. One generator, one panel. The panel can be used both for singly and parallel. It is only need to parallel generator with such panel when the capability needs to be enlarged in the future.



DSE 8610 & BC 8620 control systems provide the same features as DSE 7310 & DSE 7320 respectively but has the following added functions:

- DSE8610 Set-to-Set Synchronization
- DSE8620 Single Set-to-Mains synchronization with integrated mains monitoring
- DSE8660 Multi Set-to-Mains synchronization.
 In addition, each set in the system requires a DSExx10 unit.