

Fujian HuaTai Power Supply Co.,Ltd.

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Open Type

Model: HC550, 1500rpm / 50Hz

Prime Rating: 400kW / 500 kVA Standby Rating: 440kW / 550 kVA

Standby or Prime Power Features

- ☐ Cummins 4-stroke , water-cooled diesel engine
- □ Leroy Somer Brush-less synchronous alternators: four-pole construction.
- ☐ HT2000 AUTO START/STOP Control System
- □ 24V starting and control battery
- ☐ Full range of accessories and options available
- ☐ Operation&Maintenance, and Parts Manual
- ☐ Manufactured in an ISO-9001 certified facilities
- ☐ Heavy-duty & One year warranty

General Design

HC550 open type genset contains two parts: genset with steel-fabricated base frame, and control panel.

- ☐ Emergency stop button equipped
- ☐ Anti-vibration mountings and base frame
- ☐ High Temperature,Low Oil pressure,Overspeed Overcurrent, Charge fail protections.
- ☐ Lockable maintenance and control panel doors.(Silent type)

Gen Set Ratings

3 Phase, p.f.0.8

Rated Frequency	Hz	50
Rated Output	kW / kVA	400 / 500
Max. Output	kW / kVA	440 / 550
Max. Current	Amps	794
Rated Voltage	V	400
Phase		3 Phase 4 Wires
Manufacturer		Fujian Huatai Power Supply Co.,Ltd.

Notes: Standby ratings do not have an overload capability but can be used for the duration of the utility failure per ISO3046, DIN6271, Prime (unlimited running time) ratings are continuous per DIN6271, ISO3046 with 10% overload capability.

Engine Technical Data

Seneral		Units	50HZ
	Emission certifficates		STAGE 2
	Rated speed	rpm	1500
	Engine Brand - Model		Chongqing Cummins Enging Co.,Ltd - KTA19-G4

	Engine Max.output	kW/hp	504 / 676
	Engine Base.output	kW/hp	448 / 600
Data	Number of cylinders		6
ic D	Cylinder arrangement		Inline
Basic	Type of air intake		Turbocharged,After-cooled
Engine	Type of cooling		Water-cooled
Eng	Total displacement	liters	18.9
	Bore*Stroke	mm	159 * 159
	Speed control		Electronic
	Speed drop		±5%
	Type of fuel		Diesel
Ε	Fuel consumption @ 25% load	Liters/h	30
yste	Fuel consumption @ 50% load	Liters/h	57
el s	Fuel consumption @ 75% load	Liters/h	82
Ţ	Fuel consumption @ 100% load	Liters/h	107
	Fuel tank capacity	Liters	To be Asked
	Type of oil		SAE 15W40/CF-4
0ii	Total quantity of oil	Liters	50
	Maximum oil consumption	g/kW.h	≤4
Coola nt	Type of coolant		Water
Š °	Total quantity of coolant	Liters	106
2	Air filter type		Dry Element
ster	Max.intake restriction	kPa	6.23
ir sy	Consumption	Liters/s	579
٩	Intake flow	Liters/s	9800
ıst	Exhaust flow	Liters/s	1604
Exhaust system	Exhaust temperature	${\mathbb C}$	557
Ω S	Max.back pressure	kPa	10
ial 1	Voltage of electric system	٧	24
Electrical system	Type of battery		Lead acid type
S)			

AC Alternator Data

Model	LSA 47.2M7
Brand	Leroy Somer
Prime Power (kW)	400kW
Excitation Type	Brushless self-excitation
Voltage Regulator Type	Automatic Voltage Regulator
AVR Model	R250
Power Factor (Cos Phi)	0.8
Altitude	≤1000m
Overspeed	2250RPM
Number of Pole	4
Exciter type	Shunt
Insulation class	н
Drip proof	IP23
Voltage regulation	±0.5%
Total harmonics (TGH/THC)	at no load < 1.5% - on load < 2%
Wave form: NEMA=TIF	<50
Wave form: I.E.C = THF	<2%
Bearing	Single
Voltage Regulation	± 0.5%
Coupling	Direct

Control Panel

HT2000 Control System

Automatic Start Control Panel

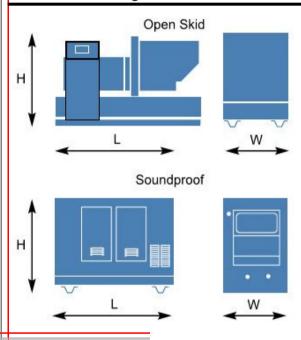
HT2000 control system integrating digital, intelligent and network techniques is used for automatic control of diesel generator set. It can carry out functions including automatic start/stop, data measure and alarming.

The controller uses LCD display, optional Chinese and English display interface with operation easy and reliable.

HT2000 control system uses micro-processing technique which can carry out precision measure, constant value adjustment timing and threshold setting and etc. of multi-parameters. It can be widely used in all types of generator automatic control for compact structure, advanced circuits, simple connections and high reliability.

- High Temperature, low oil pressure, overspeed, overcurrent, over/under voltage, over/under frequency protection.
- •3 phase generator voltage and current measurement
- •3 phase busbar voltage measurement
- 3 phase power measurement
- •3 analog inputs
- Event and performance log
- 2 languages (user changeable)

Dimension & Weight



Open Type (Standard Configuration)
Overall Size: 3800×1300×1895 mm(L*W*H)
Weight:4400Kgs

Soundproof Type

Overall Size: 4800*1700*2350 mm(L*W*H)

Weight:5600Kgs

Standard Equipments

Engine

Air Cleaner(Dry-cartridge type)

Fuel Pump

Fuel Filter

Thermostat and Housing

Dry Exhaust Manifold

Blower Fan & Fan Drive

Radiator - Unit Mounted

Electric Starting Motor

Housing & Flywheel

Charging Alternator

Battery Rack & Cables

First filling of oil and filters

First filling of coolant

Electrical System

Battery (for 50HZ is supplied as standard)

Battery rack and cables

Engine driven battery charger

Battery disconnect switch

Canopy(for silent units)

Heavy duty lockable handles in each door

Large doors for easy access for service and

monitoring

Coolant refilling specific hatch

Sound foam

Modular bolted assembly after painting.

Powder coating paint for outdoor usage.

Alternator

Self-ventilated and drip-proof construction

Synchronous, Brush-less, Self Exciting, Self Regulating

Direct Coupled With Flex Disk

12 Leads winding

Class H Insulation

Drip-Proof Construction

Exhaust

Built-in Industrial Muffler for Open generators Built-in Residential Muffler for Silent generators Rain Cap

Handling

Fork lift facilities

Lifting and holding down points

Base Frame

Heavy duty quality steel fabricated welded base plate Heavy duty anti-vibration mountings Stub-up area Weatherproof sealed joints.

Cut using high precision numeric control technology.

Bent using high precision numeric control technology.

Glazed acoustic sealed control panel door.

Fuel filter outside enclosure.

In base oil and coolant drains.

Control Panel

HT2000 Control System

Automatic Start Control Panel

- * Compact gen-set controller for gensets operating for automatic start/stop, data measure and alarming.
- * Battery Charger(to be supplied by mains into the 208-240V range)
- * On/Off button
- * Emergency stop buttion

Packing

Plastic wrap protection package
Alternator, Engine and Generating set operator's
manual are supplied together with electrical drawings.



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