



Model: HG3000, 1500rpm / 50Hz

Prime Rating: 2200kW / 2750 kVA

Standby Rating: 2420kW / 3025 kVA



Standby or Prime Power Features

- ☐ Googol 4-stroke , air-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

HG3000 series 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		2200/2750
Max. Output	kW / kVA		2420/3025
Max. Current	Amps		3969.4
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

General		Units	50HZ
	Rated speed	rpm	1500
Engine Basic Data	Engine Brand - Model		Googol Engine-Tech Co.,Ltd-QTA5400G3
	Engine Max.output	kW	2716
	Engine Base.output	kW	2487
	Number of cylinders		20
	Cylinder arrangement		V type
	Type of air intake		Turbocharged,air-water aftercooled
	Type of cooling		Water cooled
	Total displacement	liters	53.1
	Bore*Stroke	mm	170*195
	Speed control		Electrical
	Speed droop(static) electr.gov		0-5%
Fuel system	Type of fuel		Diesel
	Fuel consumption @ 25% load	L/H	156.4
	Fuel consumption @ 50% load	L/H	287.3
	Fuel consumption @ 75% load	L/H	420.2
	Fuel consumption @ 100% load	L/H	554.6
Oil	Total quantity of oil	Liters	300
	Max.permmissible oil temperature	°C	110
	Oil pressure warning	kPa	300
	Oil pressure shutdown	kPa	200
Coolant	Type of coolant		Water
	Total quantity of coolant	Liters	200
	Max.permmissible coolant temperature	°C	88
	Max.coolant warning temperature	°C	90
	Max.coolant shutdown temperature	°C	95
Air system	Air filter type		Dry Element
	Max.intake restriction	kPa	2
Exhaust system	Max.exhaust temperature	°C	530
	Max.exhaust back pressure	kPa	2
Electrical system	Voltage of electric system	V	24
	Type of battery		Lead acid type

AC Alternator Data

Model	MC7H
Brand	Mike
Prime Power (kW)	2200KW
Excitation Type	Brushless self-excitation
Voltage Regulator Type	Automatic Voltage Regulator
Power Factor (Cos Phi)	0.8
Altitude	≤1000m
Number of Pole	4
Exciter type	Shunt
Insulation class	H
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	± 0.6%

Control Panel

HT2000 Control System

Automatic Start Control Panel

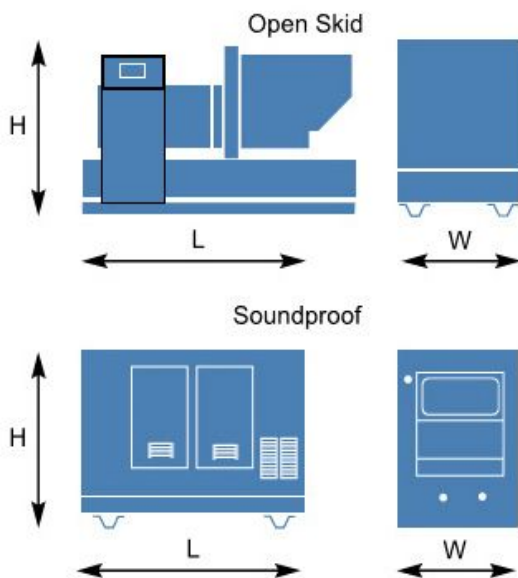
HT2000 control system integrating digital, intelligent and network techniques is used for automatic control of diesel generator set. It can carry out functions including automatic start/stop, data measure and alarming.

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: 6800*3000*3150 mm(L*W*H)
Weight: 16750Kgs

Soundproof Type
Overall Size: 12017x2342x2693 mm(L*W*H)
Weight: 19000Kgs

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

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

Electrical System

Battery (for 50HZ is supplied as standard)
Battery rack and cables
Engine driven battery charger
Battery disconnect switch
32A/4P CHINT MCCB

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.
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 button

Packing

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

