

# FUJIAN HUATAI POWER SUPPLY CO.,LTD

Add:No.7 Jiuhaodong Road, Tieling Industrial District, Fuzhou, China.P.S.350001 Tel: +86-591- 83519806 83519816; Fax: +86-591- 83519801

www.huatai-power.com



Model: HG1650, 1500rpm / 50Hz

Prime Rating: 1200kW / 1500 kVA Standby Rating: 1320kW / 1650 kVA



# Standby or Prime Power Features

- $\hfill \Box$  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
- $\square$  Full range of accessories and options available
- $\square$  Operation&Maintenance, and Parts Manual
- ☐ Manufactured in an ISO-9001 certified facilities
- ☐ Heavy-duty & One year warranty

# **General Design**

HG1650 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	1200/1500	
Max. Output	kW / kVA	1320/1650	
Max. Current	Amps	2165.1	
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.

ra		Units	50HZ	
General	Rated speed	rpm	1500	
0	Engine Brand - Model		Googol Engine-Tech Co.,Ltd-QTA3240G5	
Engine Basic Data	Engine Max.output	kW	1457	
	Engine Base.output	kW	1331	
	Number of cylinders	KVV	12	
	Cylinder arrangement		V	
	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%	
	Type of fuel		Diesel	
Ë	Fuel consumption @ 25% load	L/H	83.2	
Fuel system	Fuel consumption @ 50% load	L/H	152.79	
	Fuel consumption @ 75% load	L/H	223.51	
ũ	Fuel consumption @ 100% load	L/H	294.99	
	Total quantity of oil	Liters	180	
Oil	Max.permissible oil temperature	°C	110	
	Oil pressure warning	kPa	300	
	Oil pressure shutdown	kPa	200	
	Type of coolant	Ki G	Water	
	Total quantity of coolant	Liters	100	
lanı	Max.permissible coolant temperature	°C	88	
Coolant	Max.coolant warning temperature	°C	90	
	Max.coolant shutdown temperature	°C	95	
4i ste	Air filter type	C		
			Dry Element	
s	Max.intake restriction	kPa	2	
em.	Max.exhaust temperature	$^{\circ}$	455	
system	Max.exhaust back pressure	kPa	2	
Electrica   system	Voltage of electric system	V	24	
l sys	Type of battery		Lead acid type	
C A	Iternator Data			
odel		LSA50.2L8		
Brand		Leroy Somer		
Prime Power (kW)		1200kW		
xcitation Type		Brushless self-excitation		
,,		Automatic Voltage Regulator		
		0.8		
ltitude		≤1000m		
mbe	er of Pole	4		
citer	type	Shunt		
ulat	ion class	Н		
Drip proof		IP23		
ltag	e 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%		
	<b>→</b>			

± 0.6%

Coupling

## **Control Panel**

# HT2000 Control System

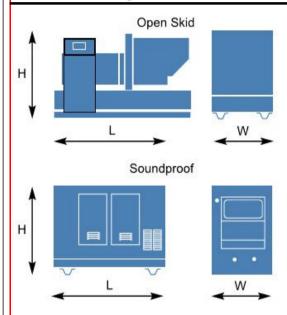
Automatic Start Control Panel

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: 5400\*2190\*2740 mm(L\*W\*H)

Weight:10500Kgs

Soundproof Type

Overall Size: 12017x2342x2693 mm(L\*W\*H)

Weight:13400Kgs

# 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 buttion

## **Packing**

Plastic wrap protection package

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

