

HGM2500EBHV10.5 TECHNICAL DATA SHEET

Genset Model	HGM2500EBHV10.5
Standby power (50HZ)	2000kW/2500kVA
Prime power (50HZ)	1800kW/2250kVA
Standard configuration	

General description:

- Engine (Googol QTA12V-EG2210)
- Ambient temperature 40°C radiator, belt-driven cooling fan, with fan safety guard
- 24VDC charger
- Alternator: single bearing,IP23, H
- Damper
- Dry type Air filter,fuel filter&oil filter
- Standard control panel
- 2×12VDC start batteries and connecting wires
- Exhaust elbow pipe, flexible pipe,conical pipe,muffler
- Documents



Genset Po	ower						
Voltage (V)	Frequency (Hz)	Phase	Power factor	Standby Ampere (A)	Prime Ampere (A)	Standby (kW/kVA)	Prime (kW/kVA)
10500	50	3	0.8	137.5	123.7	2000/2500	1800/2250

RATING DEFINITION AS PER ISO8528

Prime Power (PRP): Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated kWe with 10% overload capability for emergency use for a maximum of 1 hour in 12.

Standby Power Rating (ESP): Output available with varying load during a normal power supply failure. Average power output is 80% of the standby power rating. Typical annual operating time less than 500hours. No overload is available.

The relationship between engine power and altitude: above 1500 meters above sea level, the power decreases by 4% for every 300 meters above sea level.

Warranty

The products provided by HONNY Company are all brand-new products, and each unit has undergone strict factory inspection.

All products of HONNY Company provide warranty service. The warranty period is 12 months after delivery or 1000 hours of operation in total, whichever expires first.

Engine data	
	Engine data
Manufacturer/Model	Googol /QTA12V-EG2210
Air intake system	Turbocharged, water-to-air cooling
Fuel System	High pressure Common Rail
Cylinder/Alignment	V-type 12-cylinder, four-stroke





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Displacement Litre	64.5L	
Bore x stroke mm	185×200 (mm)	
Compression ratio	15:1	
Rated Engine speed RPM	1500	
Engine Standby Power kW/HP	2210/2293.2	
Common engine power kW/HP	2010/2693.9	
Injection system	ECU Electronic injection	system
Exhaust	system	
Exhaust flow m³/min	537	
Exhaust temperature °C	≤540	
Maximum allowable exhaust back pressure kPa	5	
Air intak	e system	
Gas volume (rated power) m³/min	215	
Cooling Air Flow m ³ /min	3288	
Maximum allowable air intake resistance kPa	kPa 5	
Fuel con	sumption	
100% common power (L/h)	463	L/h
75% common power (L/h)	340	L/h
50% common power (L/h)	227	L/h
25% common power (L/h)	129	L/h
Fuel consu	mption rate	
100% common power (g/kW.h)	214.	8
75% common power (g/kW.h)	210.	3
50% common power (g/kW.h)	210.6	
25% common power (g/kW.h)	239.4	
Lubrication	on system	
Total oil capacity L	180	
Low oil pressure alarm kPa	200	
Low oil pressure parking kPa	kPa 160	
Cooling	system	
Engine Coolant Capacity L	100	
Maximum coolant temperature °C	90	
Thermostat operating temperature °C	71	

Alternator data		
Alternator data		
Manufacturer/Model	Googol / GPH-2250-4P	
Phase	10500 V	
Voltage	Three-phase four-wire, Y-wound	
Number of Wires	1	
Number of bearings	0.8	
Power factor	IP23	
Protection	≤1000m	
Altitude requirements	PMG permanent magnet brushless self-excitation	
Excitation method	Н/Н	
Insulation class/temperature rise class	<50	



www.nonnypower.com
<2%
≤±1%
2250kVA
96.2%
≥±5%
≤±0.2%
≤+17%
≤-6.5%
≤0.75S
≤0.69S
≥±5%
≤±0.25%
≤+8%
≤-5%
≤1.48S
≤1.35S

HONNY GENSET QUALITY STANDARD

HONNY diesel generator sets are designed, produced and tested in strict accordance with the standards. They can be used in various environments and meet the following relevant standards:

GB/T 2820.1~6-2009、ISO8528、ISO3046、YD/T502-2020

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Original document from Engine	Generator Set Maintenance Record Manual	
Original document from Alternator	Generator Set Installation and Operation	
	Manual	
Original document from Control panel	Generator set installation and commissioning	
	acceptance list	
Generator set original test report	Certificate of origin of the generator set	

Optional accessories

Engine Alternator		Electric elements
Water jacket heater Anti-condensation heater		Remote control system
Oil preheater Permanent magnet excitation		Control Panel with triple
	system (PMG)	remote functions
Battery charger Voltage droop (parallel use)		ATS
Air starter motor Other temperature rise		Synchronized or parallel
	classes	panel
Heavy Duty Air Filter for	RTD temperature sensor, 2	Anti-condensation heater

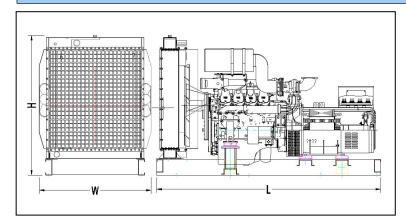




Desert	per phase	
Heavy Duty Secondary		Voltage
Muffler		3.3kV/6.3kV/10.5kV/11kV
Fuel system	Others	Cooling system
base fuel tank&Daily fuel tank	Waterproof type	External Cooling Towers
Water separator	Silent/Soundproof /container	Remote Radiator
	type	
Automatic oil supply system	Trailer type	Heat exchanger
Buried fuel tank	Emergency Power Supply	Marine cooling system
	Vehicle	

Some options may not be suitable for the whole series of generator sets, please consult HONNY application engineering department or the person in charge of this project of HONNY.

Measurement and Weight



Open type

Overall: L×W×H

Overall: 5900×2600×2900

Weight: 14600kg

Automated control screen with ATS/AMF function



The use of Deep Sea DSE7320, DSE7220 or DSE6120 controllers is the control screen of the automation unit and the most basic configuration of unattended automation. The control panel is capable of receiving remote on/off unit control signals (ATS control).

Functional features: The unit has automatic, manual, shutdown (emergency stop) and other control functions, circuit breaker opening and closing buttons, rich programmable outputs, input interfaces and humanized interfaces, multi-functional LCD display, the detected parameters are displayed through data, symbols at the same time, etc., which can meet the needs of various automation units.