

HGM1650EHV10.5 TECHNICAL DATA SHEET

Genset Model	HGM1650EHV10.5
Standby power (50HZ)	1320kW/1650VA
Prime power (50HZ)	1200kW/1500kVA
Standard configuration	

General description:

- Engine (Googol QTA8V-EG1490)
- 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 Power									
Voltage (V)	Frequency (Hz)	Phase	Power factor	Standby Ampere (A)	Prime Ampere (A)	Standby (kW/kVA)	Prime (kW/kVA)		
10500	50	3	0.8	90.7	82.5	1320/1650	1200/1500		

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 /QTA8V-EG1490				
Air intake system	Turbocharged, water-to-air cooling				
Fuel System	High pressure Common Rail				
Cylinder/Alignment	V-type 8-cylinder, four-stroke				





	W	<u>/ww.nonnypower.com</u>			
Displacement Litre	43L				
Bore x stroke mm	185×200 (mm)				
Compression ratio	15:1	15:1			
Rated Engine speed RPM	1500				
Engine Standby Power kW/HP	1490/2027.2				
Common engine power kW/HP	1345/1829.9				
Injection system	ECU Electronic injection	system			
Exhau	ıst system				
Exhaust flow m³/min	338				
Exhaust temperature $^{\circ}\mathbb{C}$	≤540				
Maximum allowable exhaust back pressure kP	a 5				
Air inta	ake system				
Gas volume (rated power) m³/min	135				
Cooling Air Flow m³/min	2184				
Maximum allowable air intake resistance kP	a 5	5			
Fuel co	onsumption				
100% common power (L/h)	313	L/h			
75% common power (L/h)	227	L/h			
50% common power (L/h)	153	L/h			
25% common power (L/h)	87	L/h			
Fuel cons	sumption rate				
100% common power (g/kW.h)	217	.8			
75% common power (g/kW.h)	210	210.6			
50% common power (g/kW.h)	212.9				
25% common power (g/kW.h)	242.2				
Lubrica	tion system				
Total oil capacity L	115				
Low oil pressure alarm kPa	200				
Low oil pressure parking kPa	160				
Coolii	ng system				
Engine Coolant Capacity L	70				
Maximum coolant temperature °C	90				
Thermostat operating temperature °C	71				

Alternator data					
Alternator data					
Manufacturer/Model	Googol /GPH-1500-4P				
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
Telephone Influence Factor TIF	<2%
Telephone Harmonic Factor THF	≤±1%
Steady State Voltage Regulation	1500kVA
Alternator capacity	94.9%
Genset Data	
Voltage setting range	≥±5%
Steady State Voltage Regulation	≤±0.2%
Transient voltage deviation (100% sudden drop power)	≤+17%
Transient voltage deviation (50% sudden power)	≤-6.5%
Voltage stabilization time (100% sudden drop of power)	≤0.75S
Voltage stabilization time (50% sudden power)	≤0.69S
Frequency adjustment range	≥±5%
frequency volatility	≤±0.25%
Transient frequency deviation (100% sudden drop in power)	≤+8%
Transient frequency deviation (50% sudden power)	≤-5%
Frequency recovery time (100% sudden drop in power)	≤1.48S
Frequency recovery time (50% surge power)	≤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

Document							
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						

_		-												-		
	n	•	14	•	n	-	2	_	^	0	c	c	^	rı	Δ	c
0	-	u	ш	•		а	а	u	u	C	3	3	v		C	3

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		

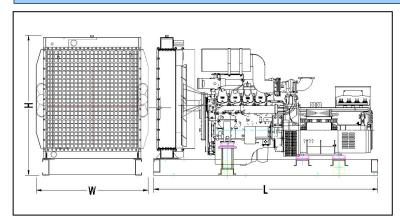




Desert	per phase			
Heavy Duty Secondary		Voltage		
Muffler		3.3kV/6.3kV/10.5kV/11kV		
Fuel system	Others	Cooling system		
base fuel tank&Daily fuel tank	Waterproof type	External Cooling Towers		
Water separator	Silent/Soundproof /container	Remote Radiator		
	type			
Automatic oil supply system	Trailer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

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: 4950×2200×2650

Weight: 11000kg

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.