

HGM3438EA TECHNICAL DATA SHEET

Genset Model	HGM3438EA
Standby power (50HZ)	2750kW/3437.5kVA
Prime power (50HZ)	2500kW/3125kVA
Standard configuration	

General description:

- Engine (Googol QTAA20V-EG3100)
- 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



G	Genset Po	wer						
\	Voltage (V)	Frequency (Hz)	Phase	Power factor	Standby Ampere (A)	Prime Ampere (A)	Standby (kW/kVA)	Prime (kW/kVA)
4	100/230	50	3	0.8	4961	4510	2750/3300	2500/3000
3	880/220	50	3	0.8	5222.3	4747.5	2750/3300	2500/3000

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.

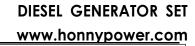
The relationship between engine power and altitude: above 1500 meters above sea level, the power decreases by 4% for every 300 meters above sea level.

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	
Engin	e data
Manufacturer/Model	Googol /QTAA20V-EG3100
Air intake system	Turbocharged, air-to-air cooling
Fuel System	High pressure Common Rail





Cylinder/Alignment	V-type 20-cylinder, four	-stroke			
Displacement Litre	107.5L				
Bore x stroke mm	185×200 (mm)				
Compression ratio	15:1				
Rated Engine speed RPM	1500				
Engine Standby Power kW/HP	3100/4217.7				
Common engine power kW/HP	2810/3823.1				
Injection system ECU Electronic injection system					
Exhaust system					
Exhaust flow m³/min	min 780				
Exhaust temperature $^{\circ}\!$	≤550				
Maximum allowable exhaust back pressure kPa	5				
Air intak	e system				
Gas volume (rated power) m³/min	313				
Cooling Air Flow m³/min	4167				
Maximum allowable air intake resistance kPa	5				
Fuel con	sumption				
100% common power (L/h)	661.6	L/h			
75% common power (L/h)	484.4	L/h			
50% common power (L/h)	323.7	L/h			
25% common power (L/h)	180.8	L/h			
Fuel consu	mption rate				
100% common power (g/kW.h)	221.	0			
75% common power (g/kW.h)	215.	7			
50% common power (g/kW.h)	216.	2			
25% common power (g/kW.h)	241.	5			
Lubrication	on system				
Total oil capacity L	300				
Low oil pressure alarm kPa	200				
Low oil pressure parking kPa	160				
Cooling	system				
Engine Coolant Capacity L	200				
Maximum coolant temperature °C	90				
Thermostat operating temperature °C	71				

Alternator data				
Alternator data				
Manufacturer/Model	Googol / GP3250-4P			
Phase	400 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			



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H/H
<50
<2%
≤±1%
3250kVA
96.2%
≥±5%
≤±0.2%
≤+17%
≤-6.5%
≤0.75S
\$0.733
≤0.69S
≥±5%
≤±0.25%
≤+8%
3 1 0 / 0
≤-5%
_ 5/0
≤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

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

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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

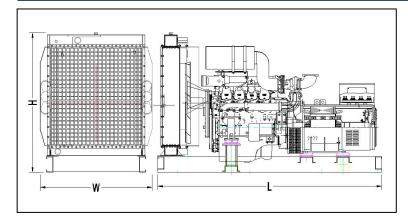


DIESEL GENERATOR SET www.honnypower.com

	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
base fuel tank&Daily fuel tank Water separator	Waterproof type Silent/Soundproof /container	External Cooling Towers Remote Radiator
,	, , ,	
,	Silent/Soundproof /container	

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: 7300×2900×3300

Weight: 20500kg

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.