

# GFE20BMC (Canopied)



Engine	Alternator	Model	Power factor	Emissions
Baudouin 4M06G20/5	Meccalte ECP28-M4 C	GFE20BMC (Canopied)	Factor $\Phi = 0.8$	N/A
50Hz	1500rpm	3-Phase		

Ratings	Prime Power	Standby Power	Rated current	Fuel consumption
Voltage (V)	(PRP) kWe      kVA	(ESP) kWe      kVA	Amps (A)	@100% load L/h
400/230	14.5      18.2	16.1      20.2	26.3	4.7

**Ratings** All three phase generator sets are rated at 0.8 power factor.  
All single-phase generator sets are rated at unity or 1.0 power factor.

**Prime output** This rating is applicable for supplying continuous electrical power at variable load. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

**Standby output** This rating is applicable for supplying electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.

The above ratings are in accordance with ISO8528-1 and ISO3046-1. Standard reference conditions: 25°C, 100m A.S.L., 30% relative humidity.

# Engine

Baudouin 4M06G20/5

		Units	
<b>General performance</b>	Frequency	Hz	50
	Type		4-Stroke, Diesel Fuel
	Engine speed	r/min	1500
	Number of cylinders / arrangement		4 cyl / In-line
	Displacement	Litres	2.3
	Aspiration		Naturally aspirated
	Combustion system		Direct injection
	Governor type		Electronic
	Bore / stroke	mm	89 x 92
	Compression ratio		18:1
	Engine power (Gross)	kW	Prime: 18      Standby: 20
	Cooling system		Water cooled
Rotation		Anti-clockwise viewed on flywheel	
<b>Fuel system</b>	Fuel consumption at 110% Prime Power	Litres/Hour	5.2
	Fuel consumption at 100% Prime Power	Litres/Hour	4.7
	Fuel consumption at 75% Prime Power	Litres/Hour	3.6
	Fuel consumption at 50% Prime Power	Litres/Hour	2.6
	Standard fuel tank capacity	Litres	80
<b>Air system</b>	Air inlet		Mounted air filter
	Air filter type		Dry
<b>Fuel and fuel system</b>	P Type pump - Common Rail		YES
	Duplex fuel filter		YES
<b>Oil system</b>	Total oil system capacity	Litres	11.5
	Maximum sump capacity	Litres	N/A
	Wet sump with filler and dipstick		YES
	Full-flow spin-on oil filters		YES
<b>Cooling system</b>	Total system capacity		
	- With radiator	Litres	8.6
	- Without radiator	Litres	N/A
	Thermostat operation range	°C	up to 50°C
	Maximum top tank temperature	°C	N/A
<b>Electric system</b>	Electrical system voltage	VDC	12
	Battery		Maintenance free
<b>Available options</b>	Battery charger		Included
	Engine water heater		Included
	Battery isolator switch		Optional

# Alternator

Meccalte ECP28-M4 C

		Units	
<b>General data</b>	Manufacturer / brand		MECCALTE
	Model		ECP28-M4 C
	Coupling / number of bearings		Flexible Disc / Single Bearing
	Phase / Poles		3-Phase / 4-Pole
	Power factor		Cos $\Phi$ = 0.8
	AVR Regulation		Yes
	Voltage Regulation		±1 %
	Insulation class		H
	Drip proof		IP23
	Excitation		AVR, Brushless
	Altitude	m	≤1000
	Overspeed	min -1	2250

# Deep Sea Controller Summary

Controller model / LCD Display Type	Optional: DSE4520	Optional: DSE6120	Included: DSE7320	Optional: DSE8610
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Standard supply	○	○	●	○
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## Viewable parameters

Phase voltage	×	3	3	3
Current	Instrumentation	●	●	●
Frequency	●	●	●	●
Active power	○	●	●	●
Reactive power	○	●	●	●
Apparent power	×	●	●	●
Power factor	○	●	●	●

## Generator protection

Abnormal voltage	●	●	●	●
Overcurrent warning	○	●	●	●
Overcurrent protection	●	●	●	●
Over frequency protection	●	●	●	●

## Engine figure

Oil pressure	●	●	●	●
Coolant temperature	●	●	●	●
Fuel meter / fuel sensor	●/○	●/○	●/○	●/○
Speed	●	●	●	●
Battery voltage	●	●	●	●
Elapsed time	●	●	●	●

## Engine protection

Low oil pressure warning	×	●	●	●
Low oil pressure protection	●	●	●	●
High temperature warning	○	●	●	●
High temperature protection	●	●	●	●
Overspeed warning	×	●	●	●
Overspeed protection	○	●	●	●
Alternator charger	●	●	●	●

## Functions

Remote start	●	●	●	●
AMF (Auto Main Failure)	●	●	●	●
Programmable input	●	●	●	●
Programmable output	●	●	●	●

**Remark:** ● Standard supply ○ Available as optional × Not available

# GFE Enclosure / Canopy

“Ensure a quieter life with our sound attenuation system.”

Sound-attenuated or open option

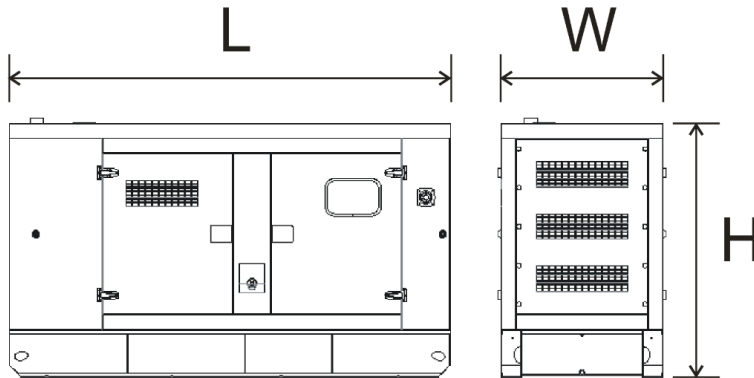
## Features

### Extremely rugged and highly corrosion resistant construction

- Compatible with 2000/14/EC directives, certified noise emission level
- 2 or 4 point lifting for transport according to cabin size with certain models also including fork pockets
- Hidden exhaust inside the canopy with weather flap to the exterior
- Emergency stop button located on the canopy
- Improved air suction channel to ensure homogenous cooling in the canopy
- Filler Lid on top of canopy for radiator and antifreeze top up
- Power coated paint system protecting against corrosion and rust
- Improved sound insulation performance
- Demounted parts for easier transportation and maintenance

## Overall dimensions, weight and noise

Frame type	Dimensions ( W x L x H ) mm	Weight kg	Base tank @100% load		Noise level dB(A) at 7m at 75% Load
			Hours	Litres	
Canopied	1038x2240x1378	900	17	80	71.4



# GFE Automatic Transfer Switch

A.T.S - 4 Poles

GFE Power Products offer as an optional accessory, not only a changeover switch but also an integrated mains detection and switch system for your 24 hour power protection. The system enables automatic start-up and operation of the generating set in the event of a mains power failure, overvoltage or loss of a mains automatic retransfer once it comes back.

## System advantages

Automatically transfer and re-transfer load from main power to gen-power without operator intervention (both automatic and manual)

ATS Controller (AMF function), seamless integration with all GFE ATSS

Available from 32 - 4000A

Available in standard, bypass isolation and service-entrance configurations

Configurable in open, closed and programmed transition operating modes

Designed to interface seamlessly with GFE generators and switchgear

Drip proof IP42 enclosure

Easy installation: wall-mounted and floor standing



\*image for illustration purposes only, actual product may differ

## Warranty

GFE distributors, dealers or authorized representatives have warranty providing the operator performs a start-up within 6 months of the date of shipment from the factory, warranty coverage will begin on the start-up date (registering the start-up date to GFE within 6 months is essential and can be enforced). This warranty does not apply to malfunction caused by damages, unreasonable use, misuse, repair or service by unauthorized persons, or normal wear and tear. Warranty is supplied strictly in accordance with GFE's terms and conditions of sale and as per the warranty manual available on request.

## Warranty coverage

Generators used with commercial utility source: From One (1) to Two (2) years. Please see GFE Warranty Terms and Conditions of sale.

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