

■ Engine Specification: BF6M1015C-LA G2B

Basic technical data	
No. of cylinders	6
Cylinder arrangement	V-from 90° angle
Cycle	4 stroke
Cylinder type	One-cylinder-one-head
Displacement	11.906 L
Bore	132 mm
Stroke	145 mm
Compression ratio	16.5:1
Mean effective pressure	17.3bar
Max. exhaust gas temperature	437°C
Charge air temperature	175°C
Exhaust emission standard	2020kg/h

Cooling system	
Water-pump flow	320 L/min
Water-pump pressure	1.8bar
Coolant capacity(engine)	17L
Heat carry off by coolant	162KW
In&outlet coolant size	70mm
Max. allowable operating temperature	103°C
Fan	Exhaust type
Fan connection	Gear drive+coupler
Fan diameter	880mm
Air volume of fan	5.52m ³ /s
Fan power consumption	≤24KW
Fan transmission ratio	0.96

Engine Data	
Dry weight	850 kg
No. of flywheel teeth	167
Engine support	Rigid
Battery voltage	24V
Starter rated power	9 KW
Generator capacity	55A

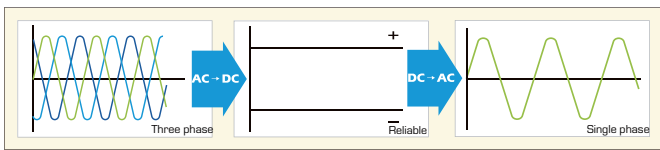
Fuel system	
Cylinder ignition sequence	1-6-3-5-2-4
Idle speed	600±50 rpm
Low-pressure pump oil load capacity	200L/h
Fuel filter element type	Disposable filter
No. of the fuel filter element	2

Lubrication system	
Min. oil pressure at 1500rpm (oil temperature 90°C)	≥3.25bar
Min. oil pressure at 600rpm (oil temperature 90°C)	≥1bar
Oil pan	Flywheel side
Oil pan inclination	30°
Initial oil filling	38L

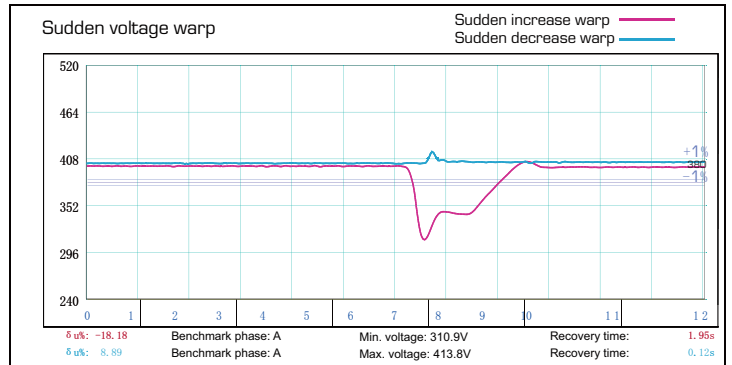
Cold starting systems	
Lowest ambient temperature of cold starting without assistant (standard configuration)	-17°C
Lowest ambient temperature of cold starting with flame preheat plug	-32°C

■ Alternator Specification

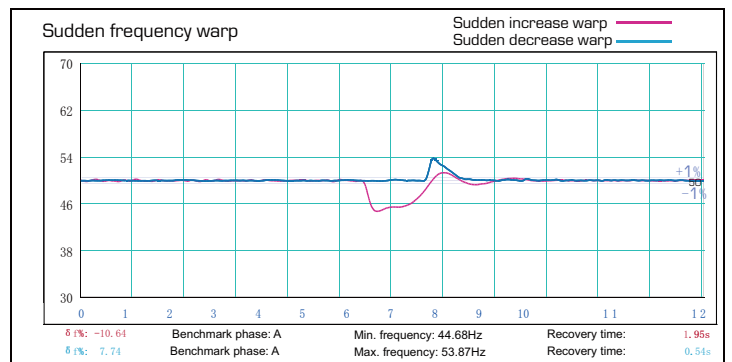
Alternator	
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding Connections (standard)	Star-serie
Terminals	12
Insulation type	H class
Winding Pitch	2/3
IP rating	IP23
Excitation system	Self-excited
Bearing	Single bearing
Coating	Vacuum impregnation
Voltage regulator	A.V.R
Couping	Flexible disc



Emergency voltage curve



Emergency frequency curve



■ Options

Engine	Alternator	Generator Sets	Fuel System
<ul style="list-style-type: none"> Water Jacket Pre-heater Fuel heater 	<ul style="list-style-type: none"> Winding Temp measuring Instrument Alternator Pre-heater PMG Anti-damp and anti-corrosion treatment Anti-condensation heater Winding and bearing RTD 	<ul style="list-style-type: none"> Tools with the machine Extended range fuel tank Bunded fuel tank 	<ul style="list-style-type: none"> Low fuel level alarm Automatic fuel feeding system Fuel T-valves
Canopy	Lub oil system	Cooling System	Control Panel
<ul style="list-style-type: none"> Rental type Canopy Trailer 	<ul style="list-style-type: none"> Oil Pre-heater Oil temp sensor 	<ul style="list-style-type: none"> Front heat protection 	<ul style="list-style-type: none"> Remote control panel ATS Synchronizing controller Adjustable earth leakage relay

■ Control Panel

Configuration

- Emergency stop button
- Protection MCB
- Battery charger
- Integrated aviation plug
- ATS connection
- Digital control module

Features

- 3 phase generator set monitoring
- Support of engines equipped with electronic control unit
- Comprehensive diagnostic message
- Automatic or manual start/stop of the gensets
- Push buttons for simple control, lamp test
- Graphic back-lit LCD display
- Parameters adjustable via keyboard or PC
- Mains measurements (50HZ/60HZ)
- Generator measurements (50HZ/60HZ)
- Comprehensive shutdown or warning on fault condition
- 3 phase Generator protections
 - Over-/under voltage
 - Over-/under frequency
 - Current/voltage asymmetry
 - Over current/overload
- 3 phase AMF function
 - Over-/under frequency
 - Over-/under voltage
 - Voltage asymmetry
- Configurable analog inputs
- Battery voltage, engine speed (pick-up) measurement
- Configurable programmable binary inputs and outputs
- Warm-up and cooling functions
- Generator C.B. and Mains C.B. control with feedback and return timer
- RS232 interface
- Modem communication support
- Hours counter
- Sealed to Ip65
- Event log

Benefits

- Less wiring and components
- Integrated solution
- Less engineering and programming
- User friendly set-up and button layout
- Module can be configured to suit individual applications
- PC software for simplified configuration
- Wide range of communication capabilities

Operation conditions

- Operation temp: -20 °C to + 70 °C
- Storage temp: -30 °C to + 80 °C
- Operating humidity: 95% w/o condensation
- Vibration : 5-25Hz, ±1.6 mm
5-100Hz, a=4g
- Shocks: a= 500m/s²

Options

- Ethernet interface (Remote monitoring and control)
- GSM modem/wireless internet (Remote monitoring and control)
- RS232-RS485 Dual port interface
- Synchronizing control panel
- Distribution board with sockets kit and power busbar
- Battery trickle charge ammeter
- Earth leakage protection
- Earth fault protection
- Low fuel level alarm
- Low fuel level shutdown
- High fuel level alarm
- Fuel transfer system control
- Low coolant level shutdown
- High lube oil temp shutdown
- Overload via alarm switch on breaker
- Engine coolant heater controls
- Control panel heater
- Speed adjust switch
- Oil temp displayed on LCD screen
- Additional 8 inputs and outputs