Model: MBL40(S)-2

Powered by Baudouin





General Information			Rated Power				
Frequency	Voltage		Prime Power		Standby Power		
Hz		V	kVA	kW	kVA	kW	
		415V/240V	N/A	N/A	N/A	N/A	
50Hz		400V/230V	N/A	N/A	N/A	N/A	
		380V/220V	N/A	N/A	N/A	N/A	
		220V/110V	N/A	N/A	N/A	N/A	
		480V/277V	45	36	50	40	
	Rated	440V/254V	45	36	50	40	
60Hz		400V/230V	N/A	N/A	N/A	N/A	
Rated		380V/220V	N/A	N/A	N/A	N/A	
		220V/127V	45	36	50	40	
		220V/110V	29.6	23.7	32.5	26	
Power	Factor		0.8 Lagging				
En	gine		4M06G41-6				
Rated	Speed		1800 RPM (Unchangeable)				
	Туре		Grade No. 2D per ASTM D975				
	oil Type		API Service CF Class SAE 15W-40				
	mator		LYG 184H				
	Level		50Hz			60Hz 107.9	
Average Value @1m,75%load	-	eries dB(A)	N/A N/A		107.9 TBA		
Fuel Con		eries dB(A)	N/A 50Hz		60Hz		
	L/h@110%		N/A		12.4		
	L/h@100%		N/A		10.9		
Load Ration	L/h@75%		N/A		8.1		
	L/h@50%		N/A		5.6		
Dimension and Weight		OE Series Open-type		SR Series Silent-type			
Length (L) mm			1850		2100		
Width (W) mm		700		993			
Height (H) mm		1330		1125			
Net. Weight (kg)		700		950			

Applicable Standards

- ISO 8528-5:2018
- GB/T2820.5-2009
- CE
- ISO 3046
- ISO 12944 (*SC only)

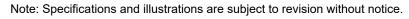
Environmental Conditions

- Ambient temperature: +5°C~+40°C (Rated Power)
- Maximal ambient temperature: 50°C
- Altitude: ≤1000m
- Anti-dust, anti-corrosion and ultra-silent

*Remark: If your conditions are different from the above, please contact our sales.

Factory Inspection

- Complete design and quality inspection
- 0%, 25%, 50%, 75%, 100%, 110% load test
- IP test
- Noise test
- Function test
- Protection test

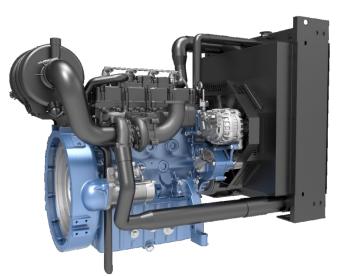




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CE certificate

Engine Specifications



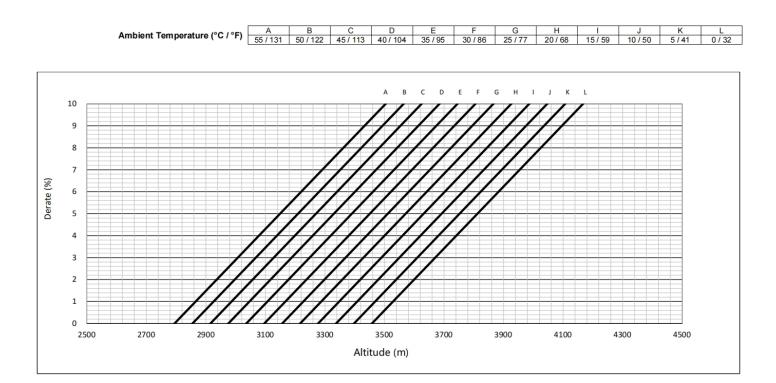
Engine model	4M06G41-6				
Emission	N/A				
Number of cylinders	4				
Cylinder arrangement	Vertical inline				
Cycle	Four stroke				
Aspiration	Turbocharged				
Bore x Stroke	89 x 92 mm				
Displacement	2.3 L				
Compression ratio	17.5 : 1				
Gross prime power /speed	N/A kWm/1500 rpm	43 kWm/1800 rpm			
Gross standby power /speed	N/A kWm/1500 rpm	47 kWm/1800 rpm			
Speed governor	Electronic				
Cooling system	Liquid (water + 50% antifreeze)				
Steady State Stability Band at any Constant Load	≤±0.5%				
Total lubrication system capacity	11.5 L				
Coolant capacity (engine only)	5 L				
Starter motor	DC 12V				
Charge alternator	DC 12V 35Amps				
☑Industrial silencer / □Residential silencer / □Critical silencer	□Spark arrestor				
☑Heavy duty air filter / □Single-core air filter	☑-18°C start up battery / □-45°C start up battery				
☑Anti-vibration mount	☑Flexible fuel connection hoses				
\Box Water-fuel separator / \Box Multi-water-fuel separators	\Box Jacket water heater / \Box Fuel jacket water heater				
□Coolant level sensor	☑Coolant temperature sensor				
⊡Lube-oil pressure sensor	□Lube-oil temperature sensor				
□Lube-oil auto refilling meter	□Lube-oil auto refilling tank				
□Smoke temperature sensor	□Lube-oil manual pump				

Engine Derating Curves

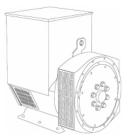
50Hz/1500RPM

N/A

60Hz/1800RPM



Alternator Specifications



Alternator model	LYG184H-V02
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding leads	12
Insulation level	H class
Temperature rise	H class
Excitation	Brushless
AVR model	SX460
Winding Pitch	5/6
IP rating	IP22
Bearing	Single bearing
Voltage regulator	±1.0%
□Space heater	□Air filter (5% derating)
□Anti-harsh environment	

			_	
Alterna	tor	Dating	ab	
Allenia		Naunu		

Class	s-Temp Rise	Cont.H-125/40℃				Standby-163/27 °C			
	Series Star(V)	380	400	415	440	380	400	415	440
50Hz	Output(kVA)	37.5	37.5	37.5	32.5	N/A	N/A	N/A	N/A
	Efficiency(%)	86.2	86.6	86.9	87.2	N/A	N/A	N/A	N/A
60Hz	Series Star(V)	416	440	460	480	416	440	460	480
	Output(kVA)	44.3	46.9	46.9	46.9	N/A	N/A	N/A	N/A
	Efficiency(%)	86.2	86.3	86.7	87.0	N/A	N/A	N/A	N/A

De-Rates

All values tabulated above are subject to the following reductions:

- 3% for every 500 meters by which the operating altitude exceeds 1000 meters above mean sea level

- 3% for every 5°C by which the operational ambient temperature exceeds 40°C

- For any other operating conditions impacting the cooling circuit please refer to applications

Note: Requirement for operating in an ambient exceeding 60°C and altitude exceeding 4000 meters must be referred to applications.

Alternator Operating Charts

400V@50Hz

TBA

480V@60Hz

TBA

One-step Load Acceptance

	50)Hz	60Hz		
ISO 8528-5	50% sudden power increase	100% sudden power decrease	50% sudden power increase	100% sudden power decrease	
Transient frequency difference (%)	ТВА	ТВА	ТВА	TBA	
Frequency recovery time (s)	ТВА	ТВА	ТВА	ТВА	
Transient voltage deviation (%)	ТВА	ТВА	ТВА	ТВА	
Voltage recovery time (s)	ТВА	ТВА	ТВА	ТВА	

*All data comes from actual testing and is for reference only.

Control Panel

DSE 4520 MKII

Auto start and auto mains failure control module (Alternator frequency & can speed sensing)



Key features

- Auto Start and AMF mode in one module.
- J1939-75 support and CAN alarm ignore function.
- Alternator frequency & CAN speed sensing in one variant.
- Largest back-lit icon display in its class.
- Heated display option.
- Real time clock provides accurate event logging.
- Fully configurable via the fascia or PC using USB communication.
- Extremely efficient power save mode.
- 3 phase generator sensing.
- 3 phase mains (utility) sensing
- Compatible with 600 V ph to ph nominal systems.
- Generator/load power monitoring (kW, kVA, kVar, PF).
- Accumulated power monitoring (kWh, kVAh, kVarh).
- Generator overload protection.
- Generator/load current monitoring and protection.
- Fuel and start outputs (configurable when using CAN).
- 4 configurable DC outputs.
- 3 configurable analogue/digital inputs

Expansion devices

□N/A

Key benefits

- Ultimate size to feature ratio.
- Automatically transfers between mains (utility) and generator.
- Hours counter provides accurate information for monitoring and maintenance periods.
- User-friendly set-up and button layout for ease of use.
- Multiple parameters are monitored simultaneously which are clearly displayed on the largest back-lit icon display in its class.
- The module can be configured to suit a wide range of applications.
- Compatible with a wide range of CAN engines including Tier 4.
- IP65 rating (with optional gasket) offers increased resistance to water ingress.
- 4 configurable digital inputs.
- Configurable staged loading outputs.
- 3 engine maintenance alarms.
- Engine speed protection.
- Engine hours counter.
- Engine pre-heat.
- Engine run-time scheduler.
- Engine idle control for starting & stopping.
- Tier 4 engine instrumentation screens.
- Battery voltage monitoring.
- Start on low battery voltage.
- Configurable remote start input.
- 1 alternative configuration.
- Comprehensive warning, electrical trip or shutdown protection upon fault condition.
- LCD alarm indication.
- Event log (50)

General Arrangement

Main Components



Generator Options

Basement:

□6 hours fuel tank
☑8 hours fuel tank
□12 hours fuel tank
□24 hours fuel tank
□Bonded fuel tank
□Fuel leakage sensor
☑Lifting points
☑Forklift holes

Electrical system :

 ☑CHINT Breaker /□ ABB Breaker /□Schneider Breaker /□Others:
 ☑Manual breaker /□Motorized breaker
 ☑3P Breaker /☑4P Breaker
 □RCD

Silent Generator Only :

☑Galvanized canopy
 □Stainless steel canopy & hardware
 ☑Sponge materials /□Rock wool with mesh plate
 ☑IP 21 /□IP 22 /□IP23

□Drag holes

Expansion joint
 Quick connector of external fuel pipe & tank
 Three-way valve

☑ Mechanical fuel level gauge
 □ Electronic fuel level sensor
 ☑ C-3 painting /□C-4 painting /□C-5 painting
 □ Others:

MEN
✓External AC charger
Socket:
Plug:

☑Zinc alloy door lock
☑Zinc alloy hinge
□Access door for radiator
□Aluminum canopy



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https://www.youtube.com/user/MPMCGenerator

MPMC ZA

*All information in this document is substantially correct at time of printing and may be altered subsequently. Final weight and dimensions will depend on completed specification.