Model: MBL40(S)-1

Powered by Baudouin





General Information		Rated Power				
Voltage		Prime Power		Standby Power		
	V	kVA	kW	kVA	kW	
	415V/240V	40	32	44	35.2	
Rated	400V/230V	40	32	44	35.2	
	380V/220V	40	32	44	35.2	
	220V/110V	TBA	TBA	TBA	TBA	
	480V/277V	N/A	N/A	N/A	N/A	
	440V/254V	N/A	N/A	N/A	N/A	
	400V/230V	N/A	N/A	N/A	N/A	
	380V/220V	N/A	N/A	N/A	N/A	
	220V/127V	N/A	N/A	N/A	N/A	
	220V/110V	N/A	N/A	N/A	N/A	
er Factor 0.8 Lagging						
Engine		4M06G44-5				
Rated Speed		1500 RPM (Unchangeable)				
Fuel Type		Grade No. 2D per ASTM D975				
Lube-oil Type			API Service CF Class SAE 15W-40			
Alternator			LYG 184J			
	Rated Factor gine Speed Type bil Type	Voltage V 415V/240V Rated 400V/230V 380V/220V 220V/110V 480V/277V 440V/254V 400V/230V 380V/220V 220V/127V 220V/110V Factor gine Speed Type bil Type mator	Voltage Prime V kVA 415V/240V 40 Rated 400V/230V 40 380V/220V 40 220V/110V TBA 480V/277V N/A 440V/254V N/A 400V/230V N/A 380V/220V N/A 220V/127V N/A 220V/110V N/A Factor gine Speed 15 Type Gra oil Type API Se mator API Se	Voltage Prime Power V kVA kW 415V/240V 40 32 Rated 400V/230V 40 32 380V/220V 40 32 220V/110V TBA TBA 480V/277V N/A N/A 440V/254V N/A N/A 400V/230V N/A N/A 380V/220V N/A N/A 220V/127V N/A N/A 220V/110V N/A N/A Factor 0.8 La gine 4M060 Speed 1500 RPM (Ui Type Grade No. 2D p bil Type API Service CF Ci cnator LYG	Voltage Prime Power Standb V kVA kW kVA 415V/240V 40 32 44 Rated 400V/230V 40 32 44 380V/220V 40 32 44 220V/110V TBA TBA TBA 480V/277V N/A N/A N/A 440V/254V N/A N/A N/A 400V/230V N/A N/A N/A 380V/220V N/A N/A N/A 220V/127V N/A N/A N/A YA N/A N/A N/A YA	

,				
Noise	Level	50Hz	60Hz	
Average Value	OE Series dB(A)	106.7	N/A	
@1m,75%load	SR Series dB(A)	TBA	N/A	
Fuel Con	sumption	50Hz 60Hz		
Load Ration	L/h@110%	10.8	N/A	
	L/h@100%	9.5	N/A	
	L/h@75%	7	N/A	
	L/h@50%	4.7	N/A	

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)	710	960	

Note: Specifications and illustrations are subject to revision without notice.

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

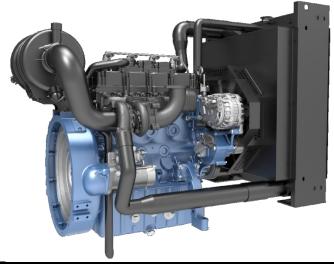








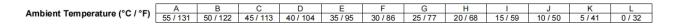
Engine Specifications

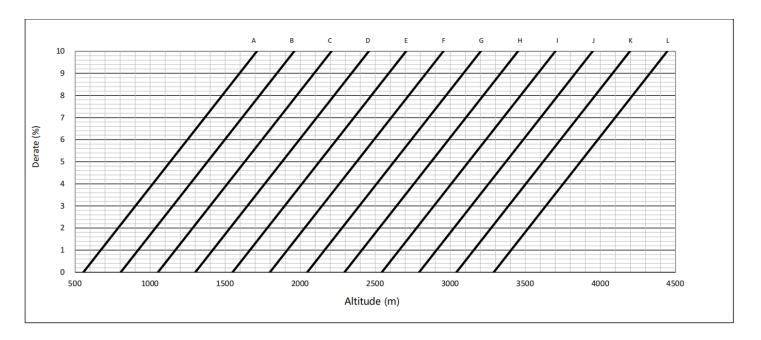


Engine model	4M06G44-5				
Emission	N/A				
Number of cylinders	4				
Cylinder arrangement	Vertical inline				
Cycle	Four stroke				
Aspiration	Turbocharged				
Bore x Stroke	89 x 92 mm				
Displacement	2.3 L				
Compression ratio	17.5: 1				
Gross prime power /speed	37 kWm/1500 rpm	N/A kWm/1800 rpm			
Gross standby power /speed	41 kWm/1500 rpm	N/A 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 / \square -45°C start up battery				
☑Anti-vibration mount	☑Flexible fuel connection hoses				
\square Water-fuel separator / \square Multi-water-fuel separators	\Box Jacket water heater / \Box Fuel jacket water heater				
□Coolant level sensor	☑Coolant temperature sensor				
	□Lube-oil temperature sensor				
□Lube-oil auto refilling meter	□Lube-oil auto refilling tank				
□Smoke temperature sensor	□Lube-oil manual pump				
☑Replaceable fuel filter, oil filter	□Breath box				

Engine Derating Curves

50Hz/1500RPM

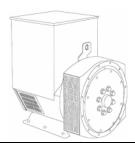




60Hz/1800RPM

N/A

Alternator Specifications



Alternator model	LYG184J-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

Efficiency(%)

Alternator Ratings Table									
Class-Temp Rise		Cont.H-125/40℃			Standby-163/27℃				
	Series Star(V)	380	400	415	440	380	400	415	440
50Hz	Output(kVA)	40.0	42.5	40.0	35.0	N/A	N/A	N/A	N/A
	Efficiency(%)	86.7	86.6	87.3	87.6	N/A	N/A	N/A	N/A
	Series Star(V)	416	440	460	480	416	440	460	480
60Hz	Output(kVA)	47.3	50.0	50.0	50.0	N/A	N/A	N/A	N/A

□RTD □STD

87.5

N/A

N/A

N/A

De-Rates

All values tabulated above are subject to the following reductions:

86.7

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

87.2

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

86.8

- 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.

N/A

Alternator Operating Charts

400V@50Hz

TBA

480V@60Hz

TBA

One-step Load Acceptance

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

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

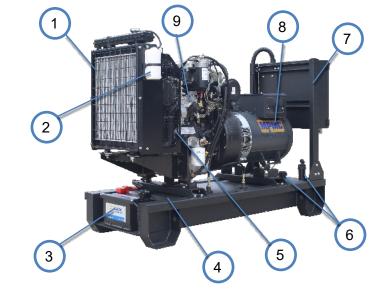
 $\square N/A$

- 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

- 1 Radiator
- 2 Expansion coolant tank
- 3 Start up battery
- 4 Base frame with AVM
- Protective mesh plate for rotating mechanism



- 6 Lockable refueling cap Mechanical fuel level gauge
- 7 Control panel Breaker panel
- 8 Alternator
- 9 Engine

- 10 SR Canopy
- 11) Hinge
- 12 Drain port
- 13 Door lock



- (14) Outside refueling port
- 15 Anti-collision feet
- 16 Air inlet louver
- (17) Lifting lug

- Control panel & breaker panel
- 19 Cable tie-point
- 20 Forklift hole



- 21) Smoke cap
- 22 Radiator access plate

Generator Options

Basement:

☐6 hours fuel tank

□12 hours fuel tank

□24 hours fuel tank

☐Bonded fuel tank

□Fuel leakage sensor

☑Lifting points

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

☑IP 21 /□IP 22 /□IP23

□Drag holes

□Quick connector of external fuel pipe & tank

☐Three-way valve

□Electronic fuel level sensor

☑C-3 painting /□C-4 painting /□C-5 painting

□Others:

 \square MEN

□Socket:

□Plug:

☑Zinc alloy door lock

☑Zinc alloy hinge

□Access door for radiator

□ Aluminum canopy



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