Model: MBL176(S)-2

Powered by Baudouin





General Information			Rated Power			
Frequency	Frequency Voltage		Prime Power		Standby Power	
Hz		V		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	200	160	220	176
	Rated	440V/254V	200	160	220	176
60Hz Rated		400V/230V	N/A	N/A	N/A	N/A
Nateu		380V/220V	N/A	N/A	N/A	N/A
		220V/127V	200	160	220	176
		220V/110V	136.7	109.4	150.3	120.2
Power	r Factor		0.8 Lagging			
Engine		6M11G176-6				
Rated Speed		1800 RPM (Unchangeable)				
Fuel Type		Grade No. 2D per ASTM D975				
Lube-oil Type		API Service CF Class SAE 15W-40				
Alternator			LYG 274F			
Maina Laural		F0		•	NI I-	

Allei	nator	L1G 2/4F			
Noise Level		50Hz	60Hz		
Average Value	OE Series dB(A)	N/A	113.8		
@1m,75%load	SR Series dB(A)	N/A	TBA		
Fuel Consumption		50Hz	60Hz		
	L/h@110%	N/A	48.6		
	L/h@100%	N/A	43.7		
Load Ration	L/h@75%	N/A	32.6		
	L/h@50%	N/A	22.6		
Load Ration	L/h@100% L/h@75%	N/A N/A	43.7 32.6		

Dimension and Weight	OE Series Open-type	SR Series Silent-type
Length (L) mm	2650	2950
Width (W) mm	870	1093
Height (H) mm	1550	1662
Net. Weight (kg)	1520	2130

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

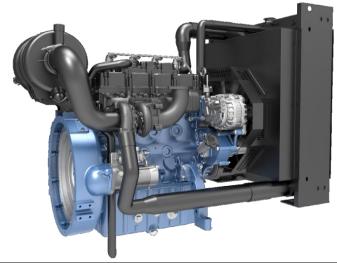








Engine Specifications



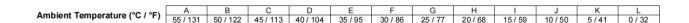
Engine model	6M11G176-6			
Emission	N/A			
Number of cylinders	6			
Cylinder arrangement	Vertical inline			
Cycle	Four stroke			
Aspiration	Turbocharged and Aftercooled			
Bore x Stroke	105 x 130 mm			
Displacement	6.75 L			
Compression ratio	18: 1			
Gross prime power /speed	N/A kWm/1500 rpm	182 kWm/1800 rpm		
Gross standby power /speed	N/A kWm/1500 rpm	200 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	19 L			
Coolant capacity (engine only)	8 L			
Starter motor	DC 12V			
Charge alternator	DC 12V 80Amps			
☑Industrial silencer / □Residential silencer / □Critical silencer	□Spark arrestor			
☑Heavy duty air filter / □Single-core air filter	$ extstyle \tilde{\textstyle C}$ start up battery / □-45 $^\circ$ 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 pressure sensor	ssure 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			

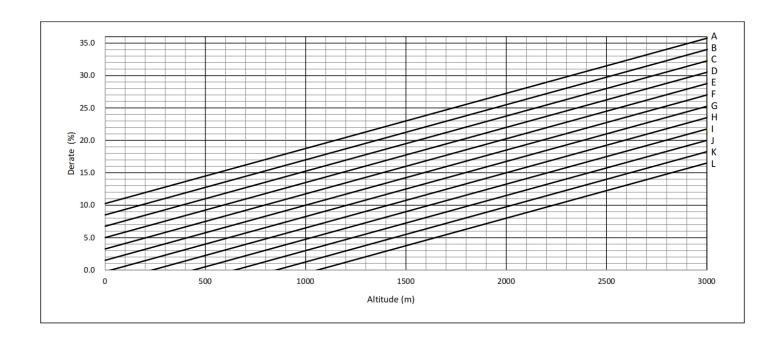
Engine Derating Curves

50Hz/1500RPM

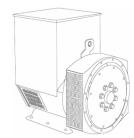
N/A

60Hz/1800RPM





Alternator Specifications



Alternator model	LYG274F-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

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	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)	182.0	182.0	182.0	N/A	200.0	200.0	200.0	N/A
	Efficiency(%)	92.0	92.3	92.5	N/A	91.6	92.0	92.2	N/A
60Hz	Series Star(V)	416	440	460	480	416	440	460	480
	Output(kVA)	205.0	218.5	218.5	231.4	218.5	234.0	234.0	253.3
	Efficiency(%)	92.2	92.4	92.7	92.7	91.9	92.1	92.4	92.5

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	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

□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
- 2 8 7
- 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:

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□Socket:

□Plug:

☑Zinc alloy door lock

☑Zinc alloy hinge

□Access door for radiator

□ Aluminum canopy



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