Model: MPL1100(S)-2

Powered by Baudouin





Applicable Standards

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

General Information		Rated Power				
Frequency	V	Voltage		Prime Power		y Power
Hz		V	kVA	kW	kVA	kW
		415V/240V	N/A	N/A	N/A	N/A
5011		400V/230V	N/A	N/A	N/A	N/A
50Hz		380V/220V	N/A	N/A	N/A	N/A
		220V/110V	N/A	N/A	N/A	N/A
		480V/277V	1250	1000	1375	1100
	Rated	440V/254V	1250	1000	1375	1100
60Hz		400V/230V	N/A	N/A	N/A	N/A
Rated		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
Power Factor		0.8 Lagging				
Engine		12M33G1100-6				
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 404G				
Nois	a I aval		50	Hz	60)Hz

Noise	Noise Level		60Hz
Average Value	OE Series dB(A)	N/A	120.7
@1m,75%load	SC Series dB(A)	N/A	TBA
Fuel Con	sumption	50Hz	60Hz
Load Ration	L/h@110%	N/A	313.4
	L/h@100%	N/A	278.7
	L/h@75%	N/A	205.9
	L/h@50%	N/A	140.7

Dimension and Weight	OE Series Open-type	SC Series Silent-type
Length (L) mm	4850	6058
Width (W) mm	1950	2438
Height (H) mm	2380	2896
Net. Weight (kg)	7200	12200

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

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

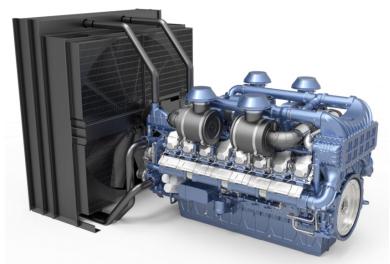








Engine Specifications



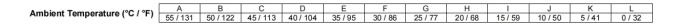
Engine model	12M33G1100-6			
Emission	N/A			
Number of cylinders	12			
Cylinder arrangement	At Vee			
Cycle	Four stroke			
Aspiration	Turbocharged and Aftercooled			
Bore x Stroke	150 x 185 mm			
Displacement	39.2 L			
Compression ratio	15 : 1			
Gross prime power /speed	N/A kWm/1500 rpm	1150 kWm/1800 rpm		
Gross standby power /speed	N/A kWm/1500 rpm	1265 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	160 L			
Coolant capacity (engine only)	83 L			
Starter motor	DC 24V			
Charge alternator	DC 24V 55Amps			
☑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			
□Water-fuel separator / □ Multi-water-fuel separators	□Jacket water heater / □ Fuel jacket water heater			
□Coolant level sensor	☑Coolant temperature sensor			
☑Lube-oil pressure sensor	□Lube-oil temperature sens	sor		
□Lube-oil auto refilling meter	□Lube-oil auto refilling tank			
□Smoke temperature sensor	□Lube-oil manual pump			
☑Replaceable fuel filter, oil filter	□Breath box			

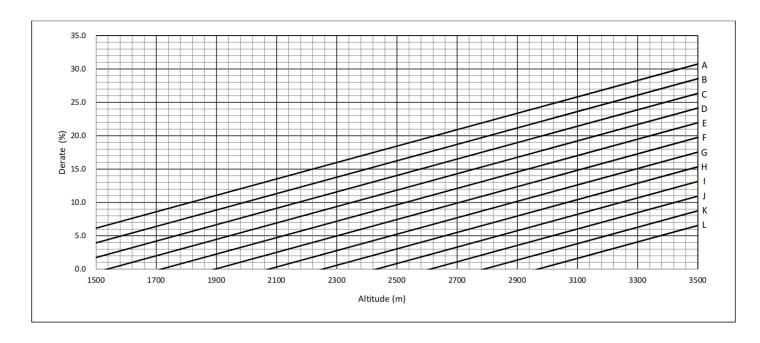
Engine Derating Curves

50Hz/1500RPM

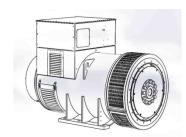
N/A

60Hz/1800RPM





Alternator Specifications



Alternator model	LYG404G-V01
Number of phase	3
Power factor (Cos Phi)	0.8
Poles	4
Winding leads	6
Insulation level	H class
Temperature rise	H class
Excitation	Brushless
AVR model	MX341B
Winding Pitch	5/6
IP rating	IP22
Bearing	Single bearing
Voltage regulator	$\pm 0.5\%$

□Space heater □Air filter (5% derating)

□Anti-harsh environment

Alternator Ratings Table									
Class	Class-Temp Rise		Cont.H-125/40℃				Standby-163/27℃		
	Series Star(V)	380	400	415	440	380	400	415	440
50Hz	Output(kVA)	1190.0	1250.0	1250.0	1135.0	1250.0	1313.0	1313.0	1190.0
	Efficiency(%)	94.9	94.9	95.0	95.2	94.7	94.7	94.8	95.2
	Series Star(V)	416	440	460	480	416	440	460	480
60Hz	Output(kVA)	1310.0	1386.0	1449.0	1513.0	1369.0	1448.0	1514.0	1580.0
	Efficiency(%)	94.9	94.9	95.0	95.0	94.8	94.8	94.9	94.9

□RTD □STD

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 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

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)

Expansion devices

 $\square N/A$

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Typical General Arrangement

Main Components on MPMC Standard Product



- 2 Expansion coolant tank
- 3 Start up battery
- 4 Base frame with AVM
- Protective mesh plate for rotating mechanism
- 10 ISO container
- Control panel Breaker panel
- 12 Cable enter
- 13 Access door



- 6 Control panel Breaker panel
- 7 Alternator
- 8 Air filter
- 9 Engine
- 14 Drain port
- 15 Maintenance ladder
- 16 Access door for radiator
- 17 Emergency stop

- 18 Corner fittings
- Galvanized container rod lock
- Fuel connector Drain port



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Air inlet louver (cover plate for transport)

Generator Options

☑IP 21 /□IP 22 /□IP23

Basement: ☐6 hours fuel tank □ Drag holes □8 hours fuel tank □Quick connector of external fuel pipe & tank □12 hours fuel tank □24 hours fuel tank ☐Three-way valve ☐Bonded fuel tank ☐Mechanical fuel level gauge □Fuel leakage sensor □Electronic fuel level sensor □C-3 painting / □C-4 painting / □C-5 painting ☑Lifting points □Forklift holes □Others: **Electrical system:** ☑CHINT Breaker /□ ABB Breaker /□Schneider Breaker \square MEN /□Others: ☑Manual breaker /□Motorized breaker ☐Socket: ☑3P Breaker /□4P Breaker □Plug: □RCD **Silent Generator Only:** ☐Galvanized canopy ☑Zinc alloy door lock □Stainless steel canopy & hardware ☑Zinc alloy hinge □Sponge materials / □Rock wool with mesh plate ☑Access door for radiator



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□Aluminum canopy



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