



\*Imagen de referencia.

## AC Series M-110KW

### Generating set technical data

Prime power(output)	<b>108kVA/86kW</b>
Standby power(output)	<b>120KVA/96KW</b>
Rated frequency	<b>60 Hz</b>
Rated speed	<b>1800 rpm</b>
Rated voltaje	<b>220/127V</b>
Phase	<b>3</b>
Power factor	<b>0.8</b>
Noise level @7mm db(A)(only for silent type)	<b>70</b>
Engine mode	<b>6BT5.9G2</b>
Alternator model	<b>LYG 274C</b>
Fuel consumption of 75% load	<b>20.7 Liters/h</b>
Fuel consumption of 100% load	<b>28.8 Liters/h</b>

### Dimension, weight, fuel tank capacity

Generating set model	<b>M-110KW</b>
Length (L) (mm)	<b>2870</b>
Width (W)(mm)	<b>1040</b>
Height (H)(mm)	<b>1250</b>
Dry weight (kg)	<b>1580</b>
Tank capacity (L)	<b>250</b>
The loading capacity (40°C)	<b>6 Sets</b>

This data sheet is for reference only, please contact the salesman before ordering

### Features:

- High quality, reliable and complete generating sets.
- Every generating set carries a comprehensive test program which includes 0%, 25%, 50%, 75%, 100%, 110% loading% test, and series protecting function(example: Low oil pressure, High coolant temperature, over current/load etc.) check.
- Easy for operation and maintenance
- Compact structure & high-strength chassis
- Base frame desing incorporates an integrate fuel tank for at least 8 hours running (up to 650KVA)
- The canopy body painting adopts the Henkel pretreatment process and the base frame painting adopts sandblasting + famous brand powder, the paint warranty period can be 1.5 years.
- High-performance free-maintenance batteries with isolation switch
- Anti - vibration pads are mounted between the engine/alternator feet and the base frame.
- Top lifting point and steel base frame with forklift holes, easy for transportation
- Compliance with international electrical safety standards
- Complete protection functions and safety levels
- A large number of marching optional to meet needs of various customers.

- Also available in the following voltages:  
415/240V, 440/254V, 220/127V, 480/277V  
(According to customer requirements)
- Rated Power/ prime power (PRP): Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period, in accordance with ISO8528
- Standby Power/Emergency Standby Power (ESP): The maximum power available during a variable electrical power sequence, no overload on these ratings, in accordance with ISO 8528

# AC Series M-110KW

# SOLDETYPE

## Engine Specifications

Engine model & manufacturer	<b>6BT5.9-G2(Cummins)</b>
Emission Certification	---
Number of cylinders	<b>6</b>
Cylinder arrangement	<b>In-line</b>
Cycle	<b>Four stroke</b>
Aspiration	<b>Turbocharged &amp; After cooler</b>
Bore x Stroke	<b>102x120 mm</b>
Displacement	<b>5.9Liter</b>
Compression ration	<b>17.3: 1</b>
Prime power/speed	<b>100kW/1800 rpm</b>
Standby power/speed	<b>110kW/1800 rpm</b>
Speed governor	<b>Electronic</b>
Cooling system	<b>Forced water cooling cycle</b>
Frequency droop	<b>≤ 5%</b>
Total lubrication system capacity	<b>16.4 Liter</b>
Coolant Capacity (engine Only)	<b>7.9 Liter</b>
Fuel consumption 100% load	<b>235 g/kW.h (at 1800 rpm)</b>
Starter motor	<b>DC24V</b>
Charge alternator	<b>DC24V</b>



## Alternator Specifications

Alternator model	<b>LYG 274C</b>
Alternator manufacturer	<b>Tipo Stamford</b>
Reted frequency/Reted speed	<b>60 Hz/1800 rpm</b>
Reted output prime power	<b>115 kVA</b>
reted voltage	<b>220V</b>
Phase	<b>3</b>
Power factor	<b>0.8</b>
Efficiency %	<b>90.6%</b>
Exciter type	<b>Self excited, Brushless</b>
Voltage adjust range	<b>≥ 5,0%</b>
Voltege regulation	<b>≤ +1.0%</b>
Insulation grade	<b>H</b>
Protection grade	<b>IP 23</b>

- Heavy duty FAW diesel engine
- Four stroke, water cooled, turbocharged
- Direct injection fuel system
- Electronic governor system
- 24V DC starter and charge alternator
- Replaceable fuel filter and dry element air filter
- Cooling radiator and fan
- Starter battery (with lead acid) including rack and cables)
- Flexible fuel connection hoses and manual oil sump drain valve
- Industrial capacity exhaust silencer and steel bellows
- Operation manuals and circuit diagram documents



## Alternator Optional

Optional alternator Brand	Leroy Sommer	Mecc alte	Stamford
Optional alternator mode	TAL-A44-D	ECP34 2S4C	UCI 274C
Exiter type	Self-excited	Self - excited	Self-excited
Rated output prime power	109 KVA	120 kVA	117 KVA

## Control System

- All MPMC generating sets have control cabinet mounted on the gen-set base frame.

**NANO3 (CompAp)**



Suitable for ≤ 250kVA Gen-sets

**DSE4520 (Deepsea)**



Suitable for > 250kVA Gen-sets

**DSE7320(Deepsea)**



Suitable for all series Gen-sets

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### The controller LCD display

Voltage between phases (L-L)  
 Voltage between neutral and phase(L-N)  
 Frequency  
 3 Phase current  
 Real power(kW) and apparent power (kVA)  
 Power Factor  
 Engine speed  
 Running hours  
 Coolant temperature  
 Oil Pressure  
 Battery Voltage  
 LCD alarm indication  
 3 Phase mains (utility) Sending

NANO3  
Control  
system

DSE4520  
Control  
system

DSE7320  
Control  
system

✓	✓	✓
X	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
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✓	✓	✓
✓	✓	✓
✓	✓	✓
X	✓	✓

### Controller Optional

IL-NT-AMF25(ComAp)



IC-NT-MINT(ComAp)



DSE8610(Deepsea)



HGM6120(SmartGen)



### Protecting Functions

Emergency stop button  
 High coolant temperature  
 Low oil pressure  
 Over current/load  
 Under/over speed, frequency & voltage  
 Low/high battery voltage  
 Low coolant level

✓	✓	✓
✓	✓	✓
✓	✓	✓
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✓	✓	✓
✓	✓	✓
✓	✓	✓

OPTIONAL    OPTIONAL    OPTIONAL

### Engine

- Water Jacket Preheater
- Oil Preheater
- Oil manual pump
- Water separator

### Alternator

- PMG excitation
- Space heater
- Winding temperature measuring
- Parallel droop device

### Fuel System

- 12/24 hour base tank
- Dual wall base fuel tank
- Outside fuel tank
- Automatic fuel feeding
- Switch between external tank and base tank (three-way valve)

### Generating Set

- Tools with the machine
- Customized instructions, materials, nameplates and toolboxes
- Charger
- Elec-oil level gauge

# SoldePYE



# 24

# HORAS



## ¡Hablemos!