

MLC1200

Specifications

Frequency	Voltage	Prime power	Continuous power
60Hz	AC 480V		1200kW
Speed	Noise(Open)	Noise(Silent)	
1800rpm	≤115dB (A) @1m	≤95dB (A) @1m	

Standard configuration

◆Electronic governor ECU	◆DC24V Charging generator	◆Water tank radiator, cooling fan
◆Ingress protection rating IP23	◆Insulation class F	◆DSE 8610 MKII controller
◆Air filter	◆Silencers	◆Battery floating charger
◆Battery pack and connection cable	◆Circuit breaker	◆Forklift slot
◆Shock Absorber	◆Vibration damper	◆Generator set usage information
◆Package: PE film		

Engine parameters

Engine Brand	Cummins
Engine Model	K50N-G12
Engine Speed	1800 rpm
Prime power	N/A
Continuous power	1300kW
Bore×Stroke	159×159 mm
Displacement	50.3L
No. of cylinders	16-V type,4 Cycle
Governor type	ECU
Air Intake method	Turbocharged and Aftercooled
Compression Ratio	13:1
Start-up method	DC24V electrical start with charging generator

Gas System

Minimum Fuel Inlet Pressure @ Inlet of GMF Sensor Housing(kPa)	5			
Maximum Fuel Inlet Pressure @ Inlet of GMF Sensor Housing(kPa)	20			
Maximum Fuel Pressure Variation	+/-1			
Acceptable Fuel	Pipeline Quality Natural Gas			
Minimum Fuel Methane Number*—MN	80			
Minimum Fuel Energy Content*—BTU/scf(MJ/m ³)	800(30)			
Gas Consumption (m ³ /h)				
Continuous power	100% Load	75% Load	50% Load	25% Load
1320kW	323.3	253	180.6	105.4

Air Intake system

Maximum Allowable Intake Air Restriction with Clean Element (kPa)	3.7
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MINLONG Power

with Dirty Element (kPa)

6.2

Cooling system

Coolant Capacity

Engine Only(L)

140

After-cooler Only(L)

44

Thermostat (Modulating) Range (°C)

82-93

Maximum Coolant Temperature into the Aftercooler (°C)

54

Lubrication system

Oil Pressure

@ Minimum Low Idle (kPa)

138

@ Governed Speed (kPa)

345-483

Maximum Allowable Oil Temperature (°C)

121

Total System Capacity (Including By-Pass Filter) (L)

234.7

Exhaust system

Max. exhaust back pressure (kPa)

10.0

Exhaust gas temperature@ COP100%load(°C)

449

Exhaust flow Volume@ COP100%load(L/s)/(CFM)

3151/6677

Alternator parameter

Alternator brand

Stamford

Alternator model

S7L1D-C41

Rated output power @480V (kW)

1515

No. of bearings

1

Insulation class

H

Voltage Regulation (steady state)

±0.25%

Ingress protection rating

IP23

Winding

311

Connection

Three-phase, four-wire

Excitation method

PMG

Power factor

0.8

Efficiency

0.95

TIF

<50

THF

<2%

Control System

Operation function

Internal PLC editor,parallel controller, remote monitoring

Controller Model

DSE 8610 MKII

Display

4-Line back-lit LCD text display

Communication

USB, RS232, RS485 & Ethernet

Ingress Protection Rating

IP65

Display function

Phase voltage, line voltage, current, frequency, phase sequence, active power, reactive power, apparent power, power factor, accumulated power generation, engine speed, oil

MINLONG Power

pressure, cooling water temperature, running time, accumulated start-up times, battery voltage, etc.

Protective function Over-speed, under-speed, over-voltage, under-voltage, over-frequency, under-frequency, over-current, over-power, low oil pressure, high water temperature, low battery voltage, charging failure, etc.

Power Ratings definitions

Ratings Definitions	Operating condition
Continuous power(COP)	1.Unlimited using time per year.
	2.Continuous power is the maximum power available at a constant load factor.
	3.No overload capability is allowed.

Size&Weight

	Length/A	Width/B	Height/C	Weight
Open type	5800mm	2280mm	2580mm	12000kg
Container type	12192mm	2438mm	2896mm	16500kg

