Diesel generating set

AGLC1000P

400V/50Hz Main power//Cummins KTA50-G3

ISO14001:2015

ISO9001 :2015

OHSAS 18001:2007

Product features

// Operative norm:

- ISO 8528:AC generator set driven by reciprocating internal combustion engine
- IEC 60034-1:Basic technical requirements for rotating motors
- YD/T 502: Communication diesel generator set
- GB/T 20136-2006 General test method for internal combustion engine power stations

// Merit:

◇ Integrated building block structure design, small volume, compact structure, sophisticated technology;

◇ Few parts, light weight, low failure rate and low maintenance cost;

◇ Supercharging and supercharging intercooling technology as the leading products, strong power;

◇ High-performance damping system and rigid base, small vibration;

◇ Efficient fuel supply system and air intake system, fuel atomization and air mixing more fully, more complete combustion, lower emissions;

◇ Standardized design, comprehensive and intelligent products, parts and components have strong versatility, easy installation and easy maintenance;

◇ maintenance-free battery, with fast start performance;

Technical parameters of the unit

// Generator set

Generator model: AGLC1000P
Main power(kW): 1000
Standby power(kW): 1100
unit capacity(kVA): 1250
Rated speed(rpm): 1500
frequency(Hz): 50
Rated voltage(V): 400
Rated current(A): 1804.3
Power factor(cos φ): 0.8(lag)
Wiring mode: 3 phase 4 wire
Generator weight (kg) 10052
Minimum smoke pipe diameter (mm) 2× φ203
Air intake(m³/min): 1539
Air exhaust(m³/min): 1440
Generator size(mm): 5073L×2010W×2458H
Recommended base size(mm): 5500L×2400W

Unit performance index (G3)

Parameter		unit	Oerformance index
Frequency drop		%	≤3
Steady state frequency band		%	≤0.5
Relative frequency setting drop range		%	≥3.5
Relative frequency setting rise range		%	≥2.5
Transient frequency deviation	100% sudden power reduction	%	≤+10
	Surge power		≤-7
Frequency recovery time		s	≤3
Relative frequency tolerance band		%	2
Steady-state voltage deviation		%	≤±1
Voltage unbalance degree		%	1
Transient voltage deviation	100% sudden power reduction	%	≤+20
	Surge power		≤-15
Voltage recovery time		s	≤4
Voltage modulation		%	0.3
Relative voltage setting range		%	≤±5
Voltage setting rate of change		%/s	0.2～1
Telephone harmonic factor	THF	%	<2
Telephone influence factor	TIF	——	<50

Engine technical parameters

// Engine

Manufacturer: Cummins

Model: KTA50-G3

Engine structure: four-stroke

Number : 16/V

Displacement:L 50

Cylinder diameter:mm 159

Stroke:mm 159

Compression ratio: 13.9: 1

Speed:rpm 1500

Primary/standby power ::kW 1097/1227

Speed regulation mode:: E

Cooling method: closed water cooling

Dry weight (engine only) :kg 5361

// Start the system

Starting rated power:kW 9

Starting rated voltage:V DC24

// Fuel system

Fuel injection form: high pressure common rail

// Fuel consumption

Engine output	L/h	g/kwh
100%	261	202
75%	199	206
50%	139	215
25%	76	235

// Intake system

Maximum allowable intake resistance (clean filter element) : kPa 3.73

Intake air flow: m^3/min 96.3

// Lubrication system

Total lubrication system capacity: L 176

Maximum allowable oil temperature :℃121

// Cooling system

Engine coolant volume: L 320

Coolant flow: L/min 1668

// Exhaust system

Maximum exhaust back pressure: kPa 10

Exhaust flow: kg/min 223.68

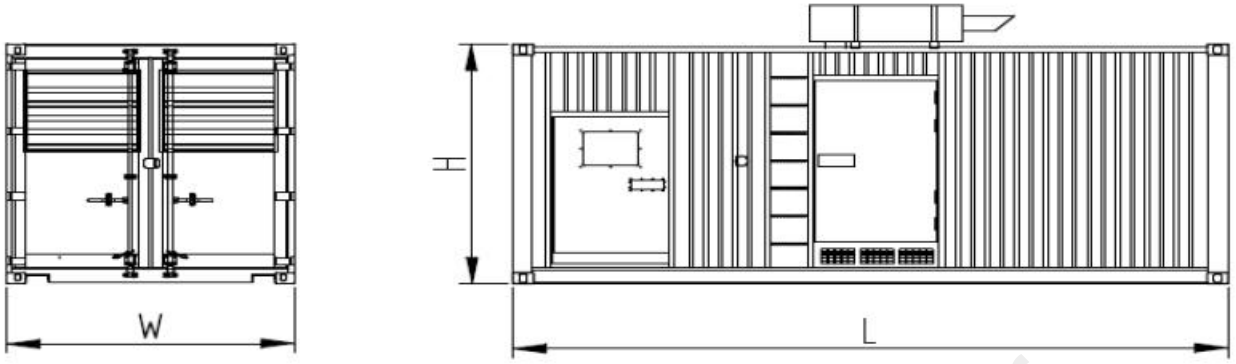
Exhaust temperature:℃ 520

Technical parameters of generator

//Dynamo *50Hz, AC400V, cos Φ=0.8

MODEL	Rated power(kW)	Standby power(kW)	Mechanical efficien	Insulation	Class of protect	Weight(kg)
LEROYSOMER LSA50.2L7	1080	1136	95.1	H/H	IP21	2600

Size and weight



* The above figure is for reference only, the actual size and weight are subject to the final design drawing。

Model	Engine model	size (L×W×H) (mm)	Dry weight (kg)	Wet weight (kg)
AGLC1000P	KTA50-G3	5073×2010×2458	9595	10052

Special instructions

// Main power (PRP) is the maximum power that the unit can run continuously with variable load under standard environment (atmospheric pressure, relative humidity, ambient temperature), and the overload of 10% is allowed to run for 1h every 12h。

// Working conditions and power correction:

Altitude: ≤1500m (> 1500m), need to do power correction; Power reduction by 10% per 1000m increase)

Ambient temperature: 40℃ (when > 40℃, power correction is required)

Relative humidity: ≤60%

When the field use conditions of the diesel generator set do not meet the above conditions, the output power of the unit should be corrected, and the final correction coefficient, please refer to the detailed technical data of the corresponding engine and generator.

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