Diesel generating set

AGLP1320P

400V/50Hz Main power//Perkins 4012-46TAG3A

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: AGLP1320P
Main power(kW): 1320
Standby power(kW): 1450
unit capacity(kVA): 1650
Rated speed(rpm): 1500
frequency(Hz): 50
Rated voltage(V): 400
rated current(A): 2381.6
Power factor(cos φ): 0.8(lag)
Wiring mode: 3 phase 4 wire
Generator weight (kg) 20762
Minimum smoke pipe diameter (mm) 1×φ250
Air intake(m³/min): 2969
Air exhaust(m³/min): 2844
Generator size(mm): 12192L×2438W×2896H
Recommended base size(mm): 5700L×2600W

Unit performance index (G2)

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: Perkins
Model: 4012-46TAG3A
Engine structure: four-stroke
Number : 12/V
Displacement:L 45.842
Cylinder diameter:mm 160
Stroke:mm 190
Compression ratio: 13: 1
Speed:rpm 1500
Primary/standby power ::kW 1500/1643
Speed regulation mode:: E
Cooling method: closed water cooling
Dry weight (engine only) :kg 4400

// Start the system

Starting rated power:kW 16.4
Starting rated voltage:V DC24

// Fuel system

Fuel injection form: high pressure common rail

// Fuel consumption

Engine output	L/h	g/kwh
100%	370	208
75%	275	206
50%	187	202
25%	NA	NA

// Intake system

Maximum allowable intake resistance (clean filter element) : kPa 2
Intake air flow: m³/min 125

// Lubrication system

Total lubrication system capacity: L 177
Maximum allowable oil temperature :℃105

// Cooling system

Engine coolant volume: L 265
Coolant flow: L/min 1020

// Exhaust system

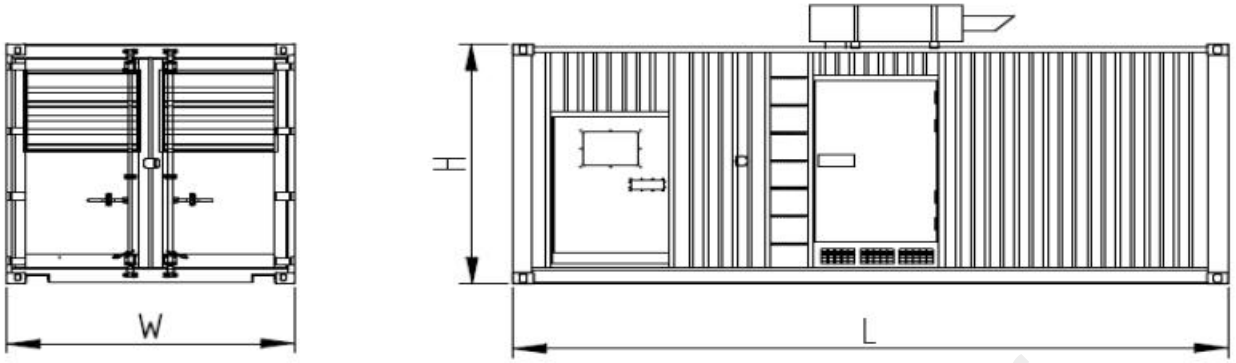
Maximum exhaust back pressure: kPa 5
Exhaust flow: kg/min 350
Exhaust temperature:℃ 480

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:LSA50.2VL1	1320	1376	94.4	H/H	IP21	3405

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)
THLP1320P	4012-46TAG3A	12192×2438×2896	20200	20762

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.

SHANGHAI AGRIPOWER INTIL CO., LTD
Bldg 38th,No.900 Haili Rd,
Jinshan District,Shanghai 201508.China
T: +86 21 67290268 F: +86 21 67290269
Web: www.china-agripower.com