

Diesel generating set

AGLP48P

400V/50Hz Main power//Perkins 1103A-33TG2









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:	AGLP48P	Main power(kW):	48
Standby power(kW):	53	unit capacity(kVA):	60
Rated speed(rpm):	1500	frequency(Hz):	50
Rated voltage(V):	400	rated current(A):	83.3
Power factor(cos φ):	0.8(lag)	Wiring mode: 3 p	hase 4 wire
Generator weight (kg)	1385	Minimum smoke pipe diameter (mm)	1× φ 56
Air intake(m³/min):	92.5	Air exhaust(m³/min):	89
Generator size (mm): 255	50L×1020W×15	534H Recommended base size (mm): 23	00L×1000W

Unit performance index (G2)

Paramet	er	unit	Oerformance index
Frequency drop		%	€3
Steady state frequenc	ey band	%	≤ 0.5
Relative frequency se	tting drop range	%	≥ 3. 5
Relative frequency se	tting rise range	%	≥2.5
Transient frequency deviation	100% sudden power reduction	%	≤ +10
deviation	Surge power		≤ -7
Frequency recovery ti	me	S	€3
Relative frequency to	olerance band	%	2
Steady-state voltage deviation		%	≤ ±1
Voltage unbalance deg	gree	%	1
Transient voltage deviation	100% sudden power reduction	%	≤ +20
deviation	Surge power		≤-15
Voltage recovery time	9	S	≤4
Voltage modulation		%	0.3
Relative voltage setting range		%	≤ ±5
Voltage setting rate of change		%/s	0.2~1
Telephone harmonic factor	one harmonic THF		<2
Telephone influence factor			<50



Engine technical parameters

Engine

Manufacturer: Perkins
<u>Model:</u> 1103A-33TG2
Engine structure: four-stroke
Number: 3/L
Displacement:L 3.3
Cylinder diameter:mm 105
Stroke:mm 127
Compression ratio: 17.25: 1
Speed:rpm 1500
Primary/standby power :: kW 55/60.5
Speed regulation mode:: M
Cooling method: closed water cooling
Dry weight (engine only): kg 420
// Start the system
Starting rated power:kW 3
Starting rated voltage:V DC12
// Fuel system

Fuel injection form: high pressure common rail

// Fuel consumption

Engine output	L/h	g/kwh
100%	14.6	237
75%	10.8	258
50%	7. 56	277
25%	4. 2	360

Intake system

Maximum	allowable	intake	resistance
(clean fi	lter elemen	t) : kPa	3
Intake a	ir flow: m³/	/min	13. 1

// Lubrication system

Total lubrication system capacity: L 8.3 Maximum allowable oil temperature : ℃125

// Cooling system

Engine	coolant	volume:	L	10.2
	_	_ ,		
Coolan	t flow:	L/min		125.5

Exhaust system

Maximum exhaust back pressure:	kPa10
Exhaust flow: m³/min	10.7
Exhaust temperature: ℃	557

Technical parameters of generator

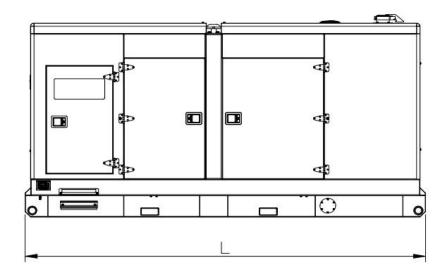
//Dynamo

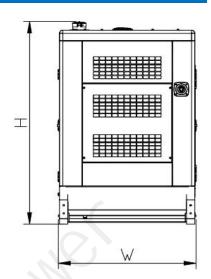
*50Hz, AC400V, $\cos \Phi = 0.8$

MODEL	Rated power(k W)	Standby power(kW	Mechanic al efficien	Insulat ion	Class of protect	Weight(kg)
LEROYSOMER: TAL-A42-H	50.4	51.4	88	Н/Н	IP23	186



Size and weight





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

Mode1	Engine model	size (L×W×H) (mm)	Dry weight (kg)	Wet weight (kg)
THLP48P	1103A-33TG2	$2550 \times 1020 \times 1534$	1300	1385

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: $\leq 1000 \text{m}$ (> 1000m), need to do power correction; Power reduction by 10% per 1000m increase)

Ambient temperature: 40° C (when > 40° C, 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