

Diesel generating set

AGLW90P

380V/60Hz Main power/WEICHAI WP4.1D115E201





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:	AGLW90P	Main power (kW): 90
Standby power(kW):	100	unit capacity(kVA): 112.5
Rated speed(rpm):	1800	Rated frequency(Hz): 60
Rated voltage(V):	380	rated current(A): 170.9
Power factor(cos Φ):	0.8(lag)	Wiring mode: 3 phase 4 wire
Generator weight (kg)	1550	Minimum smoke pipe diameter (mm) $1 \times \phi 80$
Air intake(m³/min):	209.3	Air exhaust(m³/min): 202.6
Generator size (mm): 3375	$L \times 1170W \times 17$	782H Recommended base size (mm): 2800L×1200W

Unit performance index (G2)

Paramet	er	unit	Oerformance index
Frequency drop		%	≤5
Steady state frequenc	cy band	%	≤1.5
Relative frequency se	tting drop range	%	≥ 3. 5
Relative frequency se	tting rise range	%	≥ 2. 5
Transient frequency deviation	100% sudden power reduction	%	≤ +12
deviation	Surge power		≤-10
Frequency recovery ti	me	S	€5
Relative frequency to	olerance band	%	2
Steady-state voltage	deviation	%	$\leq \pm 2.5$
Voltage unbalance deg	gree	%	1
Transient voltage	100% sudden power reduction	%	≤ +25
deviation	Surge power		≤-20
Voltage recovery time	9	S	≤6
Voltage modulation		%	0.3
Relative voltage sett	ing range	%	≤ ±5
Voltage setting rate	of change	%/s	0.2~1
Telephone harmonic factor		%	<2
Telephone influence factor			<50



Engine technical parameters

// Engine

Manufacturer: WEICHAI
Model: WP4.1D115E201
Engine structure: four-stroke
Number: 4/L
Displacement:L 4.087
Cylinder diameter:mm 105
Stroke:mm 118
Compression ratio: 17.5:1
<u>Speed:rpm 1800</u>
Primary/standby power ::kW 106/116
Speed regulation mode:: E
Cooling method: closed water cooling
Dry weight (engine only): kg 400
// Start the system
Starting rated power:kW 6
Starting rated voltage: V DC24
// Fuel system
Fuel injection form: high pressure common
rail

// Fuel consumption

Engine output	L/h	g/kwh
100%	27	211
75%	20	212
50%	14	219
25%	8	248

// Intake system

Maximum	allowable	intake	resistance
(clean f	ilter elemen	t) : kPa	3.7
Intake a	ir flow: m³,	/min	6.72

// Lubrication system

Total lubrication system capacity: L 16.4

Maximum allowable oil temperature: °C121

// Cooling system

Engine .	coolant	volume:	L 20	0
Coolant	t flow: I	L/min	120	0

// Exhaust system

Maximum exhaust back pressure:	kPa 10
Exhaust flow: kg/min	18.3
Exhaust temperature:℃	540

Technical parameters of generator

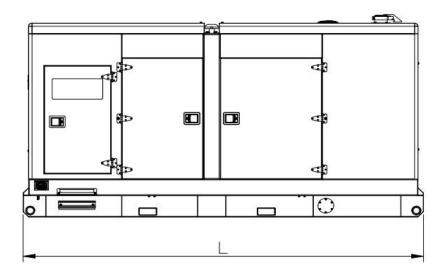
//Dynamo

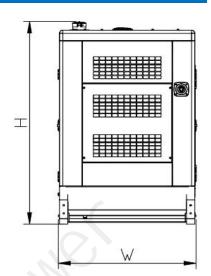
*60Hz, AC380V, $\cos \Phi = 0.8$

MOD	EL	Rated power(k W)	Standby power(kW	Mechanic al efficien	Insulat ion	Class of protect	Weight(kg)
FISTALL:	QYI224GM	90	113	92.8	Н/Н	IP21	420



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)
AGLW90P	WP4.1D115E201	$3375 \times 1170 \times 1782$	1510	1550

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: $\leq 1500 \text{m}$ (> 1500m), 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.

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