

Diesel generating set

AGLW40P

380V/60Hz Main power/WEICHAI WP2.3D58E201





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:	AGLW40P	Main power(kW):	40		
Standby power(kW):	44	unit capacity(kVA):	50		
Rated speed(rpm):	1800	frequency(Hz):	60Rated		
voltage(V):	380	Rated current(A):	76		
Power factor(cos Φ):	0.8(lag)	Wiring mode:	B phase 4 wire		
Generator weight (kg)	1385	Minimum smoke pipe diameter (mm) 1× φ 64		
Air intake(m³/min):	55.9	Air exhaust(m³/min):	53		
Generator size (mm): 2550L×1020W×1534H Recommended base size (mm): 2400L×1100W					

Unit performance index (G2)

Paramet	er	unit	Oerformance index	
Frequency drop		%	≤5	
Steady state frequency 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 tolerance band		%	2	
Steady-state voltage deviation		%	$\leq \pm 2.5$	
Voltage unbalance deg	Voltage unbalance degree		1	
Transient voltage deviation	100% sudden power reduction	%	≤ +25	
	Surge power		≤-20	
Voltage recovery time		S	≤ 6	
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: WEICHAI
Model: WP2.3D58E201
Engine structure: four-stroke
Number: 4/L
Displacement:L 2.3
Cylinder diameter:mm 89
Stroke:mm 29
Compression ratio: 17.5: 1
Speed:rpm 1800
Primary/standby power :: kW 53/58
Speed regulation mode:: E
Cooling method: closed water cooling
Dry weight (engine only): kg 235
// Start the system
Starting rated power:kW 4.5
Starting rated voltage:V DC24
// Fuel system
Fuel injection form: high pressure common
rail

// Fuel consumption

Engine output	L/h	g/kwh
100%	7.2	215
75%	5. 61	226
50%	4.06	235. 4
25%	2.65	309

// Intake system

Exhaust temperature: °C

// Intake System
Maximum allowable intake resistance
(clean filter element) : kPa 5
Intake air flow: m³/min 3.9
// Lubrication system
Total lubrication system capacity: L 13
Maximum allowable oil temperature : ℃125
// Cooling system
Engine coolant volume: L 25
Coolant flow: L/min 132
// Exhaust system
Maximum exhaust back pressure: kPa 10
Exhaust flow: kg/min 10.4

Technical parameters of generator

//Dynamo

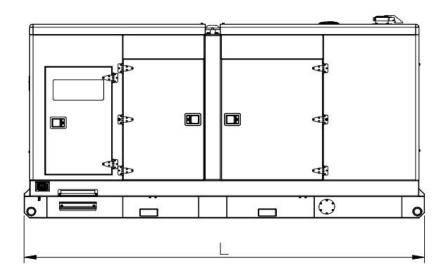
*60Hz, AC380V, $\cos \Phi = 0.8$

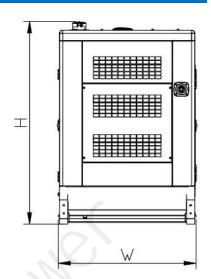
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MODE	EL	Rated power(k W)	Standby power(kW	Mechanic al efficien	Insulat ion	Class of protect	Weight(kg)
FISTALL:	QYI184H	40	43. 2	81.9	Н/Н	IP21	240



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)
AGLW40P	WP2.3D58E201	$2550 \times 1020 \times 1534$	1350	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: $\leq 1500 \text{m}$ (> 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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