

## WEICHAI

**DIESEL GENERATOR**  
Power by: WEICHAI  
Modelo: COM-W50



### 1- GENERAL DATA



Prime Power	KW/KVA	36	45
Standby Power	KW/KVA	40	50
Frequency	Hz/RPM	60	1800
Voltage	V		220
Current	A		118
Connetion	/		3p 4W/Y
Rated Power Factor	/		0,8
Open Type (LxWxH)	mm		1650x850x1200
Open Type (Weight)	Kg		780
Silent Type (LxWxH)	mm		2300x110x1240
Silent Type (Weight)	Kg		1160

º Available for voltage 400/230V, 480/277V, 380/220V 440/254V 416/240V, 220/127V, 208/120V.

º All datas based on ISO 3046, altitude 100m (328ft), barometric pressure 100kPa (29,53inHg), air temperature 25°C (77°F), relative humidity 30%.

º Please contact with engineer for correct generator capacity when the load application can't meet with reference.

º Diesel generators comply with standards: ISO8528, ISO14000, ISO3046, GB755, BS5000, VDE0530, IEC34-1

### 2- STANDARD CONFIGURATION

Engine	WEICHAI, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.
Alternator	brushless AC alternator
Radiator	50°C, fan protective shroud
Base frame	≤550KW: base mounted fuel tank, anti-vibration pads, battery holder 550KW: channel steel base frame, anti-vibration pads, battery holder
Circuit Breaker	≤1250A: Molded case circuit breaker(MCCB)

## 2- STANDARD CONFIGURATION

Control System	HGM7120N
Start battery	Dry charged battery, available for 6 times starts under standard condition; connection cables.
Installation Accessories	Bellow, Elbow and flange, Exhaust silencer, etc.
Tool	standard
Documents	Electric drawing, operation & maintenance manual, certification etc.

## 3- OPTIONAL CONFIGURATION

Engine Accessories	◇ Heavy-duty air filter ◇ Coolant heater ◇ Lub oil heater ◇ Fuel and Water Separator
Alternator And Accessories	◇ Weichai ◇ Stamford ◇ Leroy Somer ◇ Marathon ◇ Anti condensation heater ◇ High voltage ____ kV
Cooling System	◇ 50°C radiator ◇ Heat exchanger + water cooling tower + External water circulation pumping system ◇ Remote horizontal water tank system
Control System	◇ AMF ◇ Parallel ◇ Practical type in low temperature environment ◇ Control Screen Heater ◇ Other ( Comap, DEIF )
Circuit Breaker	◇ 3/4 poles ◇ Fixed/handcart type ◇ Electric mechanism
Automatic Transfer Switch	◇ ATS cabinet
Start Battery	◇ Nickel-cadmium battery ◇ Maintenance-free battery ◇ Power charger and selector ◇ Charging current meter
External Fuel Tank	◇ 500L ◇ 1000L ◇ 1500L ◇ 2000L ◇ 2500L ◇ 3000L ◇ 4000L ◇ 5000L

## 4- ENGINE DATA

Engine Model	WP2.3D47E201	Engine Power	52.8	KW
Aspiration	Turbo-Charger with intercooler	Displacement	2.289	L
Type	L	Bore x Stroke	89 x 92	mm
No. of Cylinders	4	Compression Ratio	18:01	
Governor Type	Mechanical	Rated Speed	1800	RPM
<b>Fuel System</b>				
Prime Power Fuel Consumption	12,9 L/h	Standby Power Fuel Consumption	14	L/h
Fuel #	ASTM D975 No.2-D or BS2869 1998 Class A1, A2	Injection System	BQ Pump	
<b>Lubrication System</b>				
Lub Oil Capacity	11,6 L	Lubrication Method	Splash, Pressure	
Lub #	API CF-4 15W40	Max. Temperature	100	°C
<b>Coolant System</b>				
Coolant Capacity	6,8 L	Cooling Method	Forced Watercooling	
Std. Thermostat (Modulating) Range	80 - 95 °C	Fan Drive Method	Shaft drive	

### Air Intake System

Aspiration Turbo-Charger with intercooler

### Exhaust System

Exhaust Gas Temp  $\leq 550$  °C

### Start Mode

Start Mode	DC12V Electric start	Battery	1x120 Ah
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### 5- ALTERNATOR DATA

Alternator Model	COM184H	Rate Power	37.5/46.9	KW/KVA
PF.	0.8	Voltage	220/127	V
Phase	3	Frequency	60	Hz
Connection	3P 4W / Y	Bearing	1	
Winding Pitch	2/3	Proteccion Class	IP21	
Insulation Class	H	Efficiency	90%	
Tel. Influence	TIF: <50	Voltage Regulation	$\pm 1.0\%$	
Harmonic Coefficient	THF: <2%	AVR	AS440	
Voltage Adjust Scope	$\geq \pm 5\%$	Excitation System	Self Excited	

### 6- WARRANTY POLICY

1.- Guarantee for two year or 500 hours (accord to whichever reach first) from ex-factory date. Refer to 《Diesel Generator Warranty Manual》 for more details.

2.- Wearing parts(filters), incorrect man-made operation, maintenance failures are excluded from the warranty policy