

WEICHAI

DIESEL GENERATOR
Power by: WEICHAI
Modelo: COM-W165



1- GENERAL DATA



Prime Power	KW/KVA	120	150
Standby Power	KW/KVA	132	165
Frequency	Hz/RPM	60	1800
Voltage	V	220	127
Current	A		394
Connetion	/		3p 4W/Y
Rated Power Factor	/		0,8
Open Type (LxWxH)	mm	2400 X 1050 X 1470	
Open Type (Weight)	Kg		1530
Silent Type (LxWxH)	mm	2800 X 1100 X 1600	
Silent Type (Weight)	Kg		1970

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	WP6D158E201	Engine Power	152	KW
Aspiration Turbocharged	air-air intercooled	Displacement	4.84	L
Type	In-line	Bore x Stroke	108 X 132	mm
No. of Cylinders	4	Compression Ratio	16:01	
Governor Type	ECU	Rated Speed	1800	RPM
Fuel System				
Prime Power Fuel Consumption	37.2 L/h	Standby Power Fuel Consumption	40.2	L/h
Fuel specification:	ASTM D975 No.2-D or BS2869 1998 Class A1, A2	Injection System	High pressure common rail	
Lubrication System				
Lub Oil Capacity	17 L	Lub Oil Consumption	<0.08	L/h
Lub #	API CF-4 15W40	Max.Temperature	120	°C
Coolant System				
Coolant Capacity	27 L	Max. Top Tank Temp.	97	°C
Std. Thermostat (Modulating) Range	70 - 80 °C	Fan Drive Method	Shaft drive	

Cooling Fan Air Flow	195	m3/min	Fan Power	4	KW
Air Intake System					
Combustion Air Flow	10.4	m3/min	Max Air Intake Restriction	3.5	KPa
Exhaust System					
Exhaust Gas Flow	29.1	m3/min	Max Back Pressure	10	KPa
Exhaust Gas Temp	</= 550	°C	Exhaust Pipe Size	1x@60	mm
Start Mode					
Start Mode	DC24V Electric start		Battery	2x120 Ah	

5- ALTERNATOR DATA

Alternator Model	COM274D	Rate Power	134/167.5	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	91.7 %	
Tel. Influence	TIF: <50	Voltage Regulation	±1.0%	
Harmonic Coefficient	THF: <2%	AVR	AS440	
Voltage Adjust Scope	≥±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