

DIESEL GENERATOR DATA SHEET

MG POWER DIESEL GENERATOR Cummins® powered Genset Model:MGC 80





*Drawing above for illustration purposes only

I. GENERAL DATA

Prime Power	kW/kVA	80	100
Standby Power	kW/kVA	88	110
Frequency	Hz/rpm	50	1500
Voltage	V	400	230
Current	А	144	
Connection	/	3P 4W/Y	
Rated Power Factor	/	0	.8
Open Type (L×W×H)	mm	2200×940×1480	
Open Type(Weight)	kg	1150	
Silent Type (L×W×H)	mm	2800×11	.00×1470
Silent Type(Weight)	kg	16	600



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

■ All datas based on ISO 3046, altitude 100m (328ft), barometric pressure 100kPa (29.53inHg), air temperature 25°C (77°F), relative humidity 30%.

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

■ YANAN diesel generators comply with standards:ISO8528,ISO14000,ISO3046,GB755,BS5000,VDE0530,IEC34-1

II. STANDARD CONFIGURATION

Engine	Cummins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.			
Alternator	YANAN brushless AC alternator			
Radiator	50 $^{\circ}\mathrm{C}$, fan protective shroud			
Base Frame	≤550KW: base mounted fuel tank, anti-vibration pads, battery holder			
	\geq 550KW: channel steel base frame, anti-vibration pads, battery holder			
Circuit Breaker	\leq 63A: Micro Circuit Breaker (MCB) $>$ 63A \leq 1250A: Molded case circuit breaker(MCCB) , $>$ 1250A: Air circuit breaker(ACB)			
Control System	DEEP SEA 6120			
Start Battery	Dry charged battery, available for 6 times starts under standard condition; connection cables.			
Installation Accessories	s Bellow, Elbow and flange, Exhaust silencer, etc.			
Documents	Electric drawing, operation & maintenance manual, certification etc.			

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

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IV. ENGINE DAT	A				
Engine Model	6BT5.9-G2		Engine Power	92	kW
Aspiration	Turbocharg	ed	Displacement	5.9	L
Туре	In-line		Bore×Stroke	102×120	mm
No. of Cylinders	6		Compression Ratio	17.3:1	
Governor Type	Electronic G	Governor	Rated Speed	1500	RPM
Fuel System					
Prime Power Fuel Consumption	22.3	L/h	Standby Power Fuel Consumption	23.6	L/h
Fuel #	ASTM D975 BS2869 199	No.2-D or 8 Class A1, A2	Injection System	BYC A	
Lubrication Syste	em				
Lub Oil Capacity	16.4	L			
Lub #	API CF-4 15	W40	Max.Temperature	121	°C
~					
Coolant System					
Coolant Capacity	22.4	L	Max. Top Tank Temp.	104	°C
Std. Thermostat (Modulating) Range	82-95	°C	Fan Drive Method	Shaft drive	
Cooling Fan Air Flow	240	m3/min			
 Air Intake System 	n				
Combustion Air Flow	6/6.48	m3/min	Maximum Air Intake	3.7	kPa
	0,0110		Restriction		
■ Exhaust System					
Exhaust Gas Flow	15/16.8	m3/min	Max.Back Pressure	10	kPa
Exhaust Gas Temp	≤565	°C	Exhaust Pipe Size	ф76	mm
- Stanting Sunt					
Starting System					
Start Mode	DC24V Elec	tric start	Battery	2×120	Ah

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V. ALIEKNAIOI				
Alternator Model	SLG274C	Rate Power	80/100	kW/kVA
PF.	0.8	Voltage	400/230	V
Phase	3	Frequency	50	Hz
Connection	3P 4W/Y	Bearing	1	
Winding Pitch	2/3	Proteccion Class	IP23	
Insulation Class	н	Efficiency	90.4%	
Tel. Influence	TIF: <50	Voltage Regulation	±1.0%	
Harmonic Coefficient	THF: <2%	AVR	AS440	
Voltage Adjust Scope	≥±5%	Excitation System	Self Excited	

W. CONTROL SYSTEM DATA

■ Main feature

Electronic J1939 (CAN) and nonelectronic MPU and alternator sensing engine support for diesel, gas and petrol engines all in one variant. With a number of flexible inputs, outputs and protections, the modules can be easily adapted to suit a wide range of applications.

MODEL DSE6120



DSE6120 MKIII

Key Function

- ▲ Utility voltage sensing ▲Generator/load powermonitoring (kW, kV A, kV Ar, pf) ▲Generator overload protection(kW) ▲Efficient power save mode ▲ mains and generator closed via front panel ▲4 configurable DC outputs ▲4 configurable analog./digitalinputs & stopping ▲6 configurable digital inputs ▲Support for 0-10 V & 4-20 mAoil pressure sensors
- ▲ Configurable staged loadingoutputs ▲ Configurable remote start input ▲CAN, MPU and alternator speed sensing in one variant ▲3 engine maintenance alarms ▲Engine speed protection ▲Engine pre-heat ▲ Multiple date and time scheduler ▲Engine idle control for starting ▲Fuel pump control ▲ Battery voltage monitoring ▲ Start on low battery voltage
 - ▲ Alternative configuration ▲ Alarm including common alarm, common
 - electric and common shutdown
 - ▲LCD and LED alarm indication
 - ▲Configurable event log (50)
 - ▲ Heated display option available

☆ *For more information, please visit the* official website

W. WARRANTY POLICY

1. Guarantee for one year or 1000 hours (accord to whichever reach first) from ex-factory date. Refer to

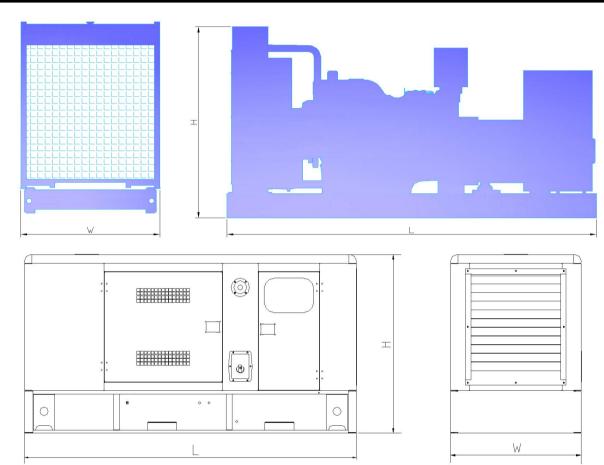
《YANAN Diesel Generator Warranty Manual》 for more details. All data is subject to change without notice, sorry for inform.

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

M. DRAWING (for illustration purposes only)



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