

DIESEL GENERATOR DATA SHEET

MG POWER DIESEL GENERATOR Cummins® powered Genset Model:MGC 20



*Drawing above for illustration purposes only

I. GENERAL DATA

Prime Power	kW/kVA	20	25
Standby Power	kW/kVA	22	28
Frequency	Hz/rpm	50	1500
Voltage	V	400	230
Current	А	36	
Connection	/	3P 4W/Y	
Rated Power Factor	/	C	.8
Open Type (L×W×H)	mm	1800×8	50×1330
Open Type(Weight)	kg	7	30
Silent Type (L×W×H)	mm	2300×11	.00×1290
Silent Type(Weight)	kg	1050	



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



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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 $^\circ$ 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	\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	Bellow, Elbow and flange, Exhaust silencer, etc.		
Documents	Electric drawing, operation & maintenance manual, certification etc.		

III. OPTIONAL CONFIGURATION

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

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IV. ENGINE DATA	4				
Engine Model	4B3.9-G2		Engine Power	27	kW
Aspiration	Naturally Asp	pirated	Displacement	3.9	L
Туре	In-line		Bore×Stroke	102×120	mm
No. of Cylinders	4		Compression Ratio	18.0: 1	
Governor Type	Electronic Go	overnor	Rated Speed	1500	RPM
Fuel System					
Prime Power Fuel Consumption	6.7	L/h	Standby Power Fuel Consumption	7.5	L/h
Fuel #	ASTM D975 I BS2869 1998		Injection System	BYC A	
Lubrication System	т				
Lub Oil Capacity	10.9	L			
Lub #	API CF-4 15W	/40	Max.Temperature	121	°C
Coolant System					
Coolant Capacity	19	L	Max. Top Tank Temp.	110	$^{\circ}\mathrm{C}$
Std. Thermostat (Modulating) Range	83 - 95	$^{\circ}\!$	Fan Drive Method	Shaft drive	
Cooling Fan Air Flow	210	m3/min			
 Air Intake System 					
Combustion Air Flow	1.968/1.974	m3/min	Maximum Air Intake Restriction	3.7	kPa
Exhaust System					
Exhaust Gas Flow	4.08/4.26	m3/min	Max.Back Pressure	10	kPa
Exhaust Gas Temp	≤410	$^{\circ}\mathrm{C}$	Exhaust Pipe Size	ф76	mm
■ Starting System					
			D	2 420	

Battery

Start Mode

All data is subject to change without notice, sorry for inform.

DC24V Electric start

2×120

Ah

MG POWER 6 C C C C S SO9DO1 SO14000 SO18000 R SU Intertek

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V. ALTERNATOR DATA

Alternator Model	SLG184F	Rate Power	22/27.5	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	85.8%	
Tel. Influence	TIF: <50	Voltage Regulation	±1.0%	
Harmonic Coefficient	THF: <2%	AVR	AS440	
Voltage Adjust Scope	≥±5%	Excitation System	Self Excited	

VI. 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.

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 ▲6 configurable digital inputs ▲Support for 0-10 V & 4-20 mAoil pressure sensors
- ▲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
- &stopping
 - ▲Fuel pump control
- ▲ Battery voltage monitoring
- ▲ Start on low battery voltage

MODEL DSE6120



DSE6120 MKIII

- ▲ Configurable staged loadingoutputs ▲ Configurable remote start input
 - ▲ 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

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VI. 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.

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

VII. DRAWING (for illustration purposes only)

