MG POWER

CCS ISO9001 ISO14000 ISO18000 Intertek

DIESEL GENERATOR DATA SHEET

MG POWER DIESEL GENERATOR
Cummins® powered Genset
Model:MGC 1000

*Drawing above for illustration purposes only

POWERED BY Cummins G-DRIVE

I. GENERAL DATA

Prime Power	kW/kVA	1000	1250
Standby Power	kW/kVA	1100	1375
Frequency	Hz/rpm	50	1500
Voltage	V	400	230
Current	A	1804	
Connection	/	3P 4W/Y	
Rated Power Factor	/	0.8	
Open Type（L×W×H）	mm	5200×2100×2310	
Open Type(Weight)	kg	9500	
Silent Type（L×W×H）	mm	6058×2438×2896	
Silent Type(Weight)	kg	13500	

■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℃ (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	Silent Type 50℃（Open Type 40℃）, 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	≤63A：Micro Circuit Breaker（MCB）＞63A ≤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	◇Heavy-duty air filter ◇Coolant heater ◇Lub oil heater ◇Fuel and Water Separator
Alternator And Accessories	◇Stamford ◇Leroy Somer ◇Marathon ◇Anti condensation heater ◇PMG ◇High voltage _____ kV
Cooling System	◇50℃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 Swtich	◇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
Others	_____

Ⅳ. ENGINE DATA

Engine Model	KTA50-G3	Engine Power	1227	kW
Aspiration	Turbocharged , Aftercooled	Displacement	50	L
Type	60° Vee	Bore×Stroke	159×159	mm
No. of Cylinders	16	Compression Ratio	13.9:1	
Governor Type	Electronic Governor	Rated Speed	1500	RPM

■ *Fuel System*

Prime Power Fuel Consumption	274	L/h	Standby Power Fuel Consumption	293	L/h
Fuel #	ASTM D975 No.2-D or BS2869 1998 Class A1, A2		Injection System	PT	

■ *Lubrication System*

Lub Oil Capacity	177	L			
Lub #	API CF-4 15W40		Max.Temperature	121	℃

■ *Coolant System*

Coolant Capacity	310	L	Max. Top Tank Temp.	104	℃
Std. Thermostat (Modulating) Range	82-93	℃	Fan Drive Method	Shaft drive	
Cooling Fan Air Flow	1700	m3/min			

■ *Air Intake System*

Combustion Air Flow	96.3/104.76	m3/min	Maximum Air Intake Restriction	3.7	kPa

■ *Exhaust System*

Exhaust Gas Flow	223.7/240.7	m3/min	Max.Back Pressure	7	kPa
Exhaust Gas Temp	≤525	℃	Exhaust Pipe Size	ϕ 200×2	mm

■ *Starting System*

Start Mode	DC24V Electric start	Battery	4x200	Ah

V. ALTERNATOR DATA

Alternator Model	SLG454A	Rate Power	1008/1260	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	H	Efficiency	95.2%	
Tel. Influence	TIF：＜50	Voltage Regulation	±0.5%	
Harmonic Coefficient	THF：＜2%	AVR	MX321	
Voltage Adjust Scope	≥±5%	Excitation System	PMG	

VI. CONTROL SYSTEM DATA MODEL DSE6120

■ 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.

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
▲6 configurable digital inputs
▲Support for 0-10 V & 4-20 mAoil pressure sensors
▲Configurable staged loadingoutputs
▲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
▲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*

VII. 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

Ⅷ. DRAWING (for illustration purposes only)