

YANAN DIESEL GENERATOR Cummins® powered Genset Model:MGC 280



*Drawing above for illustration purposes only

I . GENERAL DATA

Prime Power	kW/kVA	280	350
Standby Power	kW/kVA	300	375
Frequency	Hz/rpm	50	1500
Voltage	V	400	230
Current	A	505	
Connection	/	3P 4W/Y	
Rated Power Factor	/	0.8	
Open Type (L×W×H)	mm	3000×1100×1920	
Open Type(Weight)	kg	3150	
Silent Type (L×W×H)	mm	4200×1500×2100	
Silent Type(Weight)	kg	4300	



■ 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	Silent Type 50°C (Open Type 40°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	≤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°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 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	NTA855-G2A	Engine Power	343	kW
Aspiration	Turbocharged , Aftercooled	Displacement	14	L
Type	In-line	Bore×Stroke	140×152	mm
No. of Cylinders	6	Compression Ratio	14.0:1	
Governor Type	Electronic Governor	Rated Speed	1500	RPM

■ Fuel System

Prime Power Fuel Consumption	71.9	L/h	Standby Power Fuel Consumption	79.5	L/h
Fuel #	ASTM D975 No.2-D or BS2869 1998 Class A1, A2		Injection System	PT	

■ Lubrication System

Lub Oil Capacity	38.6	L			
Lub #	API CF-4 15W40		Max.Temperature	121	°C

■ Coolant System

Coolant Capacity	66	L	Max. Top Tank Temp.	100	°C
Std. Thermostat (Modulating) Range	82-94	°C	Fan Drive Method	Shaft drive	
Cooling Fan Air Flow	480	m3/min			

■ Air Intake System

Combustion Air Flow	22.5/24.06	m3/min	Maximum Air Intake Restriction	3.7	kPa
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■ Exhaust System

Exhaust Gas Flow	59.16/65.7	m3/min	Max.Back Pressure	10	kPa
Exhaust Gas Temp	≤558	°C	Exhaust Pipe Size	φ150	mm

■ Starting System

Start Mode	DC24V Electric start	Battery	2x150	Ah
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V. ALTERNATOR DATA

Alternator Model	SLG314F	Rate Power	304/380	kW/kVA
PF.	0.8	Voltage	400/230	
Phase	3	Frequency	50	Hz
Connection	3P 4W/Y	Bearing	1	
Winding Pitch	2/3	Proteccion Class	IP23	
Insulation Class	H	Efficiency	92.6%	
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

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 power monitoring (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./digital inputs
- ▲6 configurable digital inputs
- ▲Support for 0-10 V & 4-20 mA oil pressure sensors
- ▲Configurable staged loading outputs
- ▲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)

