



DIESEL GENERATOR DATA SHEET

LEEGA DIESEL GENERATOR

Powered by Cummins
Model:LG110C



I.GENERATOR DATA

*Drawing above for illustration purposes only

Prime Power	kW/kVA	80	100
Standby Power	kW/kVA	88	110
Frequency	Hz/rpm	50	1500
Voltage	V	400	230
Current	A		144
Connection	/		3P 4W/Y
Rated Power Factor			0.8
Open Type	(L×W×H)	mm	2200×940×1480
Open Type(Weight)			1150
Silent Type	(L×W×H)	mm	2800×1100×1470
Silent Type(Weight)			1600



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

■ All data 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,IEC341

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

II. STANDARD CONFIGURATION

Engine	Cummins, including air filters, fuel filters, oil filter, starting motor and charging alternator etc.
Alternator	LEECA brushless AC alternator
Radiator	Silent Type 50°C (Open Type 40°C) , fan protective shroud ≤550KW: base mounted fuel tank, anti-vibration pads, battery holder
Base Frame	>550KW: channel steel base frame, anti-vibration pads, battery holder
Circuit Breaker	≤1250A : Molded case circuit breaker(MCCB)
Control System	ComAp IL-NT AMF20
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	LEECA standard
Documents	Mechanical drawing, 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 ◇AMF ◇Parallel ◇Practical type in low temperature environment ◇Control Screen Heater
Control System	◇Other (DeepSea、DEIF)
Circuit Breaker	◇3/4 poles ◇Fixed/handcart type ◇Electric mechanism
Automatic Transfer Switch	◇ATS cabinet ◇Nickel-cadmium battery ◇Maintenance-free battery ◇Power charger and selector
Start Battery	◇Charging current meter
External Fuel Tank	◇500L ◇1000L ◇1500L ◇2000L ◇2500L ◇3000L ◇4000L ◇5000L
Others	

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IV. ENGINE DATA

Engine Model	6BT5.9-G2	Engine Power	92	kW
Aspiration	Turbocharged and Air to air	Displacement	5.9	L
Type	In-line	Bore×Stroke	102x120	mm
No. of Cylinders	6	Compression Ratio	17.3:1	
Governor Type	Electronic 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 No.2-D or BS286		Injection System	BYC/A	

■ *Lubrication System*

Lub Oil Capacity	16.4	L			
Lub #	15W40 CH-4		Max. Temperature	121	°C

■ *Coolant System*

Coolant Capacity	22.4	L	Max. Top Tank Temp.	100	°C
Std. Thermostat (Modulating)	Ra 82-95		Fan Drive Method	Shaft drive	

■ *Air Intake System*

Combustion Air Flow	105	L/sec.	Maximum Air Intake Restr.	3.7	kPa
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■ *Exhaust System*

Exhaust Gas Flow	270	L/sec.	Max. Back Pressure	10	kPa
Exhaust Gas Temp	≤565	°C	Exhaust Pipe Size	φ76	mm

■ *Starting System*

Start Mode	DC24V Electric start	Battery	2x120	Ah
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V. ALTERNATOR DATA

Alternator Model	S274G80B1	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	H/H	Efficiency	91.1%	
Tel. Influence	TIF: <50	Voltage Regulation	±1.0%	
Harmonic Coefficient	THF: <2%	AVR	SX460	
Voltage Adjust Scope	≥±5%	Excitation System	Self Excited	

VI. CONTROL SYSTEM DATA

MODEL ComAp IL-NT AMF20

Main feature

AUTOMATIC MAINS FAILURE START CONTROLLER

The IntelliLiteNT range offers a wide choice of integrated control solutions for gen-sets operating in single standby mode.

Key Function

- ▲ Direct communication with EFI engines
- ▲ AMF function / MRS function
- ▲ Output configuration
- ▲ Voltage measurement Gen. / Mains 3 ph / 3 ph
- ▲ Current measurement 3 ph
- ▲ kW/kWh/kVA measurement ■ / - , ■
- ▲ Generator protections
- ▲ Running hours history
- ▲ GCB/MCB control with feedback
- ▲ D+ battery charging alternator circuit
- ▲ Engine hours
- ▲ Dummy load/Load shedding
- ▲ Auto. temperature based heating / cooling
- ▲ pressure sensors
- ▲ Start on low battery voltage
- ▲ 3 configurable analog inputs
- ▲ Magnetic pickup input
- ▲ D+ preexcitation terminal
- ▲ 7 binary inputs
- ▲ 7 binary outputs
- ▲ Automatic and manual GCB and MCB control
- ▲ Gen-set current/power measurement
- ▲ Running hours event and performance log
- ▲ Plug-in extension modules capability



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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)

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