



# DIESEL GENERATOR DATA SHEET

## LEEGA DIESEL GENERATOR

Powered by Cummins  
Model:LG28C



### I.GENERATOR DATA

\*Drawing above for illustration purposes only

Prime Power	kW/kVA	20	25
Standby Power	kW/kVA	22	28
Frequency	Hz/rpm	50	1500
Voltage	V	400	230
Current	A		36
Connection	/		3P 4W/Y
Rated Power Fact./			0.8
Open Type	(L×W×H)	mm	1725×950×1500
Open Type(Weight)			930
Silent Type	(L×W×H)	mm	2250×1080×1255
Silent Type(Weight)			1150



■ 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,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	LEEGA 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	LEEGA 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	

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

Page 2, of 5

## IV. ENGINE DATA

Engine Model	4B3.9-G2	Engine Power	27	kW
Aspiration	Naturally Aspirated	Displacement	3.9	L
Type	In-line	Bore×Stroke	102x120	mm
No. of Cylinders	4	Compression Ratio	17.3:1	
Governor Type	Electronic Governor	Rated Speed	1500	RPM
<b>■ Fuel System</b>				
Prime Power Fuel Consumption	6.7 l/h	Standby Power Fuel Consumption	7.5	l/h
Fuel #	ASTM D975 No.2-D or BS2856	Injection System	BYC/A	
<b>■ Lubrication System</b>				
Lub Oil Capacity	9.5 L			
Lub #	15W40 CH-4	Max. Temperature	121	°C
<b>■ Coolant System</b>				
Coolant Capacity	7.2 L	Max. Top Tank Temp.	100	°C
Std. Thermostat (Modulating) Range	82-95 °C	Fan Drive Method	Shaft drive	
<b>■ Air Intake System</b>				
Combustion Air Flow	32.8 L/sec.	Maximum Air Intake Restriction	6	kPa
<b>■ Exhaust System</b>				
Exhaust Gas Flow	67.5 L/sec.	Max. Back Pressure	10	kPa
Exhaust Gas Temp	≤380 °C	Exhaust Pipe Size	φ76	mm
<b>■ Starting System</b>				
Start Mode	DC24V Electric start	Battery	2X60A	

## V. ALTERNATOR DATA

Alternator Model	S184G20D8	Rate Power	20/25	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	85%	
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



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

Page 4, of 5

## 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)

