



# DIESEL GENERATOR DATA SHEET

## LEEGA DIESEL GENERATOR

Powered by Cummins  
Model:LG63C



### I.GENERATOR DATA

\*Drawing above for illustration purposes only

|                     |         |      |                |
|---------------------|---------|------|----------------|
| Prime Power         | kW/kVA  | 45   | 56             |
| Standby Power       | kW/kVA  | 49.5 | 62             |
| Frequency           | Hz/rpm  | 50   | 1500           |
| Voltage             | V       | 400  | 230            |
| Current             | A       |      | 81             |
| Connection          | /       |      | 3P 4W/Y        |
| Rated Power Factor  |         |      | 0.8            |
| Open Type           | (L×W×H) | mm   | 1850×980×1500  |
| Open Type(Weight)   | kg      |      | 970            |
| Silent Type         | (L×W×H) | mm   | 2450×1090×1800 |
| Silent Type(Weight) | kg      |      | 1600           |



■ Available for voltages 400/230V, 480/277V, 380/220V, 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               | LEECA brushless AC alternator  |
| Radiator                 | Silent Type 50°C (Open Type 40°C) , fan protective shroud<br>≤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<br>◇High voltage _____ kV   |
| Cooling System             | 50°C radiator    ◇Heat exchanger + water cooling tower + External water circulation pumping system<br>◇Remote horizontal water tank system<br>◇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<br>◇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     | 4BTA3.9-G2                 | Engine Power      | 55      | kW  |
| Aspiration       | Turbocharged and Air toair | 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 |

### ■ *Fuel System*

|                             |           |                |                         |       |     |
|-----------------------------|-----------|----------------|-------------------------|-------|-----|
| Prime Power FuelConsumption | 12.9      | l/h            | Standby Power FuelConsu | 14.1  | l/h |
| Fuel #                      | ASTM D975 | No.2-D orBS28€ | Injection System        | BYC/A |     |

### ■ *Lubrication System*

|                  |       |      |                 |     |    |
|------------------|-------|------|-----------------|-----|----|
| Lub Oil Capacity | 10.9  | L    |                 |     |    |
| Lub #            | 15W40 | CH-4 | Max.Temperature | 121 | °C |

### ■ *Coolant System*

|                             |          |    |                     |             |    |
|-----------------------------|----------|----|---------------------|-------------|----|
| Coolant Capacity            | 21.9     | L  | Max. Top Tank Temp. | 100         | °C |
| Std. Thermostat(Modulating) | Ra 82-95 | °C | Fan Drive Method    | Shaft drive |    |

### ■ *Air Intake System*

|                     |    |        |                          |     |     |
|---------------------|----|--------|--------------------------|-----|-----|
| Combustion Air Flow | 49 | L/sec. | Maximum Air Intake Restr | 6.2 | kPa |
|---------------------|----|--------|--------------------------|-----|-----|

### ■ *Exhaust System*

|                  |      |        |                   |     |     |
|------------------|------|--------|-------------------|-----|-----|
| Exhaust Gas Flow | 125  | L/sec. | Max.Back Pressure | 10  | kPa |
| Exhaust Gas Temp | ≤463 | °C     | Exhaust Pipe Size | φ86 | mm  |

### ■ *Starting System*

|            |                      |         |      |    |
|------------|----------------------|---------|------|----|
| Start Mode | DC24V Electric start | Battery | 2x60 | Ah |
|------------|----------------------|---------|------|----|

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## V. ALTERNATOR DATA

|                      |           |                    |              |        |
|----------------------|-----------|--------------------|--------------|--------|
| Alternator Model     | S224G45B4 | Rate Power         | 45/56        | 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         | 89%          |        |
| 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*

- |  |   |
|--|---|
| <ul style="list-style-type: none"> <li>▲ Direct communication with EFI engines</li> <li>▲ AMF function / MRS function</li> <li>▲ Output configuration</li> <li>▲ Voltage measurement Gen. / Mains 3 ph / 3 ph</li> <li>▲ Current measurement 3 ph</li> <li>▲ kW/kWh/kVA measurement     ■ / - , ■</li> <li>▲ Generator protections</li> <li>▲ Running hours history</li> <li>▲ GCB/MCB control with feedback</li> <li>▲ D+ battery charging alternator circuit</li> <li>▲ Engine hours</li> <li>▲ Dummy load/Load shedding</li> <li>▲ Auto. temperature based heating / cooling</li> <li>▲ pressure sensors</li> </ul> | <ul style="list-style-type: none"> <li>▲ 3 configurable analog inputs</li> <li>▲ Magnetic pickup input</li> <li>▲ D+ preexcitation terminal</li> <li>▲ 7 binary inputs</li> <li>▲ 7 binary outputs</li> <li>▲ Automatic and manual GCB and MCB control</li> <li>▲ Gen-set current/power measurement</li> <li>▲ Running hours event and performance log</li> <li>▲ Plug-in extension modules capability</li> </ul> |
|--|---|



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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)**