



JIANGSU LONGEN POWER TECHNOLOGY CO., LTD.

Diesel Generating Set LGFS-187

50Hz

General Features

- **Engine** NEF67TM4.S500
- **Alternator** UCI274F
- **Controller** LGHGM6120NC

Prime power	120kW/150kVA
Standby power	132kW/165kVA



- Charger and starter battery (sealed battery)
- Electric starter, 12VDC or 24VDC battery, with automatic 12VDC or 24VDC battery charger
- Design comply to ISO 8528, ISO 3046
- Equipped with 8-hours operation base tank 400L
- Noise-proof enclosure: Standard noise level 75dB(A)±3 at 75% load, measured at a distance of 7m

Fuel tank system:

- Synchronized with the machine,
- Ensure sufficient minimum fuel for the generator to operate continuously for 08 hours with a load of 100% of the rated capacity
- Has an indicator of the fuel level being stored

Starting battery charger:

- With fuel level indicator.
- Rated input voltage: 220VAC.
- Rated output voltage: 12VDC or 24VDC.
- Rated output current: > 2A DC

Starting battery:

- Synchronized with the machine.
- Sealed battery, capacity ≥ 100Ah

Generator soundproof cover:

- Soundproof, noise reduction, electrostatically painted.
- Can work outdoors
- The machine shell is attached to the base, with hooks to help lift and transport the entire generator system easily and safely.
- The doors are arranged appropriately for machine inspection and maintenance, with safety locks, rubber pads between the doors and the machine body to ensure effective soundproofing. The door at the controller position is made of transparent glass or mica.

Ability to meet load:

- The casing structure allows the generator set to reach 100% of rated power and without overheating warning.

Machine base frame:

- Has a sturdy, load-bearing structure, with a shock-absorbing and anti-vibration system between the base frame and the engine and generator set to minimize vibration during operation.
- All components and accessories of the generator set are completely installed in a common frame, including the fuel tank; the entire frame is installed inside a soundproof, noise-reducing shell

General Ratings

Voltage	Power				Frequency (Hz)	Phase	P.F (COSφ)	Prime Current (A)
	Prime		Standby					
	kw	kva	kw	kva				
220/380V	120.0	150.0	132.0	165.0	50	3	0.8	227.9
230/400V	120.0	150.0	132.0	165.0	50	3	0.8	216.5
240/415V	120.0	150.0	132.0	165.0	50	3	0.8	208.7
254/440V	120.0	150.0	132.0	165.0	50	3	0.8	196.8

Prime power

This rating is for the supply of continuous electrical power at variable load. A 10% overload capability is available for a period of 1 hour within each 12-hour period of operation, according to standards ISO 8528-1:2005, ISO 3046

Standby power

This rating is for the supply of continuous electrical power at variable load in the event of utility power failure. No overload is permitted.

Rated voltage

Available with customers requirements.

Ability to close load

Startup from 0% load to 100% load within 12 seconds



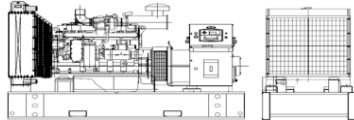


Sales Promise

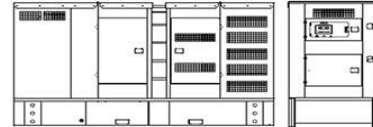
LONGEN POWER provides a full line of 100% brand new and high quality products.
Each and every unit is strictly factory tested before delivery.
Warranty is according to below standard conditions, subject to the earlier one.
1. 12 months, counted on the day LONGEN sold to the first buyer.
2. One year after installation.
3. 1000 running hours.
Service and parts are available from LONGEN or distributors in your location.

Dimension And Weight

Open frame
Size(L*W*H):2550*1000*1640(mm)
N.W.:1492 (kgs)



Silent with Canopy
Size(L*W*H): 3220*1100*1845 (mm)
N.W.:1798(kgs)



**Engine Specifications**

1	Engine model	Full name: NEF67TM4.S500 Short name: NEF67TM4
2	Engine manufacturer	FPT POWERTRAIN TECHNOLOGIES
3	Number of cylinders	6
4	Cylinder arrangement	in line
5	Cycle	4 stroke
6	Aspiration	Turbocharged and air to air intercooled
7	BorexStroke(mmxmm)	104 x 132
8	Displacement (Liter)	6.7
9	Compression Ratio	17.5:1
10	Prime power/speed (kW/RPM)	150/1500RPM
11	Standby power/speed (kW/RPM)	165/1500RPM
12	Fuel system	Direct injection pump
13	Cooling system	Forced cooling by circulation with water tank, combined with fan
14	Coolant capacity (L)	25.5
15	Total lubrication system capacity (L)	17.2
16	Fuel consumption at 100% load (L/h)	36.6
17	Fuel consumption at 75% load (L/h)	29.40
18	Fuel consumption at 50% load (L/h)	18
19	Fuel consumption at 25% load (L/h)	9.2
20	Allowable operating ambient temperature (according to cooling system design)	≥50°C
21	Exhaust pipe to release smoke	Silencer combined with elastic connection tube
22	Starting battery capacity	≥ 100Ah
23	Starter motor	Electric start, with automatic charge regulator and battery
24	Dynamo	12V
25	Governor	Electronic
26	Fuel used	Diesel

Alternator Specifications

Compliance with BS EN 60034; BS5000, BS6861, VDE 0530, NEMA MG1-32, IEC34, CSA C22.2-100, AS1359

1	Alternator manufacturer	STAMFORD
1	Alternator model	UCI274F
2	Prime Power	160 kVA
3	Standby Power	175 kVA
5	Exciter type	Single bearing, Brushless, Self-excited, rotating magnetic field
6	Rated speed	1500 RPM
7	Rated frequency	50 Hz
8	Phase and wires	3 phase, 4 wires
9	Rated voltage	220/380V AC or 230/400V AC
10	Power factor	0.8
11	Voltage adjust range	±5%
12	Voltage regulation capability (from 0% to 100% load)	±1%
13	Insulation grade	H
14	Cooling type	Axial head centrifugal fan (direct drive)
15	Overload	2250 RPM
16	Voltage stabilization	Automatically stabilize voltage by AVR
17	Protection grade	IP23
18	Alternator overcurrent protection	By MCCB switchgear
19	Sustained short circuit current	750A
20	Rated efficiency at 100% load, power factor: 0.8	≥ 92%

Alternator option

Mecc Alte, Leroy Somer, Longen





Control System

LONGEN Model

General Features:

- Controller is manufactured by LONGEN and installed synchronously on the generator before leaving the factory.
- Digital engine speed control.
- Digital voltage control.
- Standard: ISO 9001, ISO 7637-2

Controller interface:

- Has an LCD or LED display, backlight, adjustable brightness and contrast.
- Has indicators for the generator's operating status.
- Uses English and common symbols.
- Has function keys that allow selecting operating modes, control, accessing data, and directly setting operating parameters.

Communication Connection:

- Has a port to connect to a computer, using specialized software to install and monitor operating parameters.
- Has an interface to connect to the ATS to control the start/stop of the generator

Main functions:

- Has operating modes: Automatic - Manual - Stop.
- Has the ability to control machine start and stop (on-site and remotely); emergency stop on-site (with emergency stop button) and remotely.
- Allows setting of delay time when starting and stopping the machine

Function to measure and display operating parameters of the generator:

Has the function of measuring and displaying the main operating parameters of the generator:

- Generator voltage (phase voltage or line voltage).
- Generator frequency and engine speed.
- Generator load current and load capacity.
- Lubricating oil pressure.
- Engine/coolant temperature.
- Starting battery voltage.
- Number of operating hours of the generator

Function to monitor the operation of the generating set:

Has the function of warning, automatically protecting the generator set (engine and alternator) when the operating parameters exceed the allowable threshold value or the generator set is in a state of failure:

- + High/low generator set voltage.
- + High/low frequency.
- + High/low engine speed.
- + Low oil pressure.
- + High coolant/engine temperature.
- + High/low starting battery voltage.
- + Overload, short circuit.
- + Starting error.

- Display, indicate the operating status, warnings, and problems of the generator set.
- Save events, warnings, machine running hours,...

LGHGM6120NC PHOTO



Option

Generator Set

- Trailer generator set
- ABB MCCB circuit breaker
- 50°C Radiator

Fuel system

- 12 hours base fuel tank
- 24 hours base fuel tank
- Dual wall base fuel tank
- External fuel tank

Exhaust system

- Residential exhaust silencer

Alternator

- PMG excitation
- Anti Condensation Heater

For cold area

- Water heater
- Oil heater
- Rapid water preheater (diesel burner)

Auto system

- Remote Control panel
- ATS control cabinet
- Paralleling System

External ATS



Water Heater



Oil Heater



Paralleling System





JIANGSU LONGEN POWER TECHNOLOGY CO., LTD.

Diesel Generating Set LGFS-187

50Hz

The generator meets the allowed generator emission standards

Total dust amount: < 200 mg/Nm³

NO₂ gas content: < 850 mg/Nm³

SO₂ gas content: < 500 mg/Nm³

CO content: <1000 mg/Nm³

Contact Us

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LONGEN POWER reserves the right to change the specifications and design without notice.

