

## Operation manual for model DG11000E3 DIESEL GENERATOR

(more detailed origin manual inside each cartong box)

**Professional 3-Phase | 400V 9.0kW | 230V 3kW**

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### TECHNICAL DATA

#### Power Output

- Continuous: 8.5 kW | Peak: 9.0 kW / 400V mode: 9.0 kVA | 230V mode: 7.65-8.1 kVA / Single-phase: 85-90% of max power

#### Electrical

- Voltage: 220/380V, 230/400V, 220/415V / Frequency: 50 Hz  $\pm 0.5$  Hz
- Voltage regulation:  $\pm 2\%$  / THD:  $< 5\%$  (grid quality) / DC output: 12V/8.3A

#### Engine

- Model: 1100F/HOOF diesel / Type: Single-cylinder, 4-stroke, air-cooled
- Starting: Electric with preheating / Oil capacity: 1.65L (CC/CD grade)
- Fuel tank: 30L / Runtime: 12-12.5 hours

#### Physical

- Dimensions: 780x540x700mm / Weight: 140kg / Noise: 80-85dB at 7m
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### SAFETY WARNINGS

 **CARBON MONOXIDE HAZARD** - Use outdoors only!

- Keep 1.5m from buildings
  - Ground properly before use
  - Never refuel while running
  - Allow 30min cooling before service
  - Do not exceed rated capacity
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### SETUP

1. **Location:** Level surface, outdoors, well-ventilated
  2. **Grounding:** Connect ground cable to earth rod (min 1m deep)
  3. **Engine oil:** Add 1.65L diesel engine oil
  4. **Fuel:** Fill with clean diesel fuel
  5. **Battery:** Connect cables (positive first)
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### OPERATION

#### Starting

1. Disconnect all loads
2. Main breaker OFF
3. Open fuel valve
4. Turn key ON
5. **Cold start:** Hold preheat 10-15 sec
6. Turn key to START
7. Warm up 3 minutes
8. Main breaker ON

#### Connecting Loads

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*Specifications subject to change / Use genuine parts only*

- Calculate total load (max 8.5kW continuous)
- Connect largest loads first
- Balance 3-phase loads (max 20% imbalance)
- Monitor voltmeter

#### Stopping

1. Remove all loads
2. Run unloaded 3 minutes
3. Main breaker OFF
4. Turn key OFF
5. Close fuel valve

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#### MAINTENANCE SCHEDULE

Service	Daily	20h*	100h	500h	1000h
Check oil/fuel	✓				
Change oil		✓	✓		
Clean air filter			✓		
Replace air filter				✓	
Service fuel system				✓	
Major service					✓

\*First oil change (new unit)

#### Oil Change

1. Warm engine 3 min
2. Drain old oil
3. Add 1.65L new oil
4. Check with dipstick

#### Air Filter

- Clean: Tap gently, blow with compressed air (max 2 bar)
- Replace if damaged

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#### TROUBLESHOOTING

##### No Start

- Check fuel level
- Check battery charge
- Bleed fuel system
- Verify fuel valve open

##### Poor Performance

- Clean air filter
- Check fuel quality
- Reduce overload
- Adjust governor

##### No Power Output

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- Check circuit breaker
- Test outlets
- Verify engine speed
- Check connections

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## SPECIFICATIONS SUMMARY

**Features** ✓ Wava alternator technology ✓ THD <5% (grid quality power) ✓ Electric start with preheating ✓ ATS-ready ✓ 35mm vibration-resistant frame ✓ Magnetic circuit breaker ✓ Low oil protection ✓ Digital voltmeter

### Connections

- 1× 400V 3-phase socket
- 1× 230V 32A socket
- 2× AC outlets
- 1× 12V DC output
- Ground terminal

### Operating Conditions

- Altitude: <1000m
- Temperature: +5°C to +40°C
- Humidity: up to 90%

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## WARRANTY & SERVICE

**Coverage:** 1 year or 3000 hours **Registration:** Within 30 days at [www.fermetech.eu](http://www.fermetech.eu) **Parts/Service:** [info@fermetech.eu](mailto:info@fermetech.eu)

When ordering parts, provide:

- Model: DG11000E3
- Serial number
- Part description

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## QUICK REFERENCE

**Pre-start Checklist** ☐ Oil level OK ☐ Fuel level OK ☐ Grounding connected ☐ Loads disconnected ☐ Area clear

**Emergency Stop** → Push emergency button or turn key directly OFF

### Storage (>30 days)

1. Drain fuel
  2. Change oil
  3. Add 2cc oil to cylinder
  4. Clean and cover
  5. Disconnect battery
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