

# DIESEL GENERATOR SET

## TYPE ADG62D

62 kVA/Prime/50Hz  
(68 kVA/LTP/50Hz)



Optional equipment shown. Standard equipment may vary.

### BENEFITS

- // Most compact design
- // Air cooled engine – trouble-free cooling system
- // Lowest maintenance cost
- // High user-friendliness

### SYSTEM RATINGS<sup>①</sup>

Prime (LTP) <sup>②</sup>	ADG62D	ADG62D	ADG62D
Voltage (L-L)	380V	400V	415V
Phase	3	3	3
PF	0.8	0.8	0.8
Hz	50	50	50
kWe	48 (54.4)	48 (54.4)	48 (54.4)
kVA	62 (68)	62 (68)	62 (68)
AMPS	94	89	86
Generator model	ACG-0062-4-400	ACG-0062-4-400	ACG-0062-4-400
Temp rise	125°C (150°C)	125°C (150°C)	125°C (150°C)
Load acceptance	68%	68%	68%

① Power available up to 25°C/100 m

② Technical data for prime power

## CERTIFICATIONS AND STANDARDS

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// Engine-generator set is designed and manufactured in facilities certified to standards ISO 9001:2008

// Performance Assurance Certification (PAC)

- Engine-generator set tested to ISO 8528-5 for transient response
- Verified product design, quality and performance integrity
- All generator sets are type and factory tested

// Power rating

- Permissible average power output during 24 hours of operation is approved up to 75% for prime power rating
- Permissible average power output during 24 hours of operation is approved up to 100% for limited time power rating. Operating hours are limited to 500 hours per year.

## STANDARD EQUIPMENT<sup>①</sup>

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### // Engine

.....  
Air cleaners

.....  
Oil pump

.....  
Oil drain extension & S/O valve

.....  
Full pre-filter with water separator

.....  
Full flow oil filters

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Exhaust manifold – dry

.....  
Blower fan & fan drive

.....  
Electric starting motor – 12V

.....  
Governor – mechanical

.....  
SAE flywheel

.....  
Flexible fuel connectors

### // Generator

.....  
NEMA MG1, IEEE and ANSI standards compliance for temperature rise and motor starting

.....  
VDE 0530, IEC 34.1, BS5000, CSA C22.2-100, AS1359

.....  
Self-ventilated

.....  
Superior voltage waveform

.....  
No load to full load regulation

.....  
125°C prime temperature rise (insulation class H)

.....  
1 bearing, sealed

.....  
Full amortisseur windings

.....  
125% rotor balancing

.....  
3-phase voltage sensing

.....  
Automatic voltage regulator  $\pm 0,5\%$

<sup>①</sup> Represents standard product only. Consult Factory/MTU Onsite Energy distributor for additional configurations.

## STANDARD FEATURES<sup>①</sup>

- // The generator set complies to G2
- // Engine-generator set tested to ISO 8528-5 for transient response
- // MTU Onsite Energy is a single source supplier
- // Global product support
- // 2 year standard warranty
- // BF4L 914 diesel engine – 4-cycle
- // Engine-generator resilient mounted
- // Self-excited generator
  - Brushless, rotating field generator
  - 300% short circuit capability
  - 2/3 pitch windings
- // Cooling system 50°C
  - Integral set-mounted
  - Engine driven fan

## APPLICATION DATA

### // Engine

Manufacturer	Deutz
Model <sup>②</sup>	BF4L 914
Type	4-cycle
Arrangement	4/in-line
Displacement	4.31 l
Bore: cm	10.2
Stroke: cm	13.2
Compression ratio	19 : 1
Rated RPM (speed)	1,500
Engine governor	Mechanical
Gross power: kWm <sup>②</sup>	60.2 kW
Aspiration	turbo charged

### // Lubrication System

Oil capacity (sump) min./max.	11 l
Lube oil consumption (in % of fuel cons.)	0.5
Oil pressure min. (warning): bar	1.5
Oil pressure min. (shut-down): bar	1.5
Max. oil temperature: °C	135

### // Fuel System

Recommended fuel	see MTU fluids & lubrication spec.
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### // Heat Rejection

	PRIME <sup>②</sup>
Engine radiation and convection: kW	approx. 51
Heat rejection of generator: kW	approx. 6.7

### // Fuel Consumption and Fuel Tank Capacity

	PRIME <sup>②</sup>
At 100% load	13.9 l/h (211 g/kWh)
At 75% load	10.4 l/h (210 g/kWh)
At 50% load	7.2 l/h (220 g/kWh)
At 25% load	4.6 l/h (280 g/kWh)
Capacity of base frame fuel tank (open set)	155 l
Capacity of base frame fuel tank (sound proof)	155 l

### // Cooling System

	PRIME <sup>②</sup>
Max. ambient temperature: °C	50
Fan power consumption: kW	1.2
Cooling air flow: m <sup>3</sup> /h	2570
Air pressure loss: mbar	10

### // Combustion Air

	PRIME <sup>②</sup>
Combustion air volume: m <sup>3</sup> /h	250
Max. air intake restriction: mbar	20
Air cleaner type	Dry, replaceable element with safety cartridge

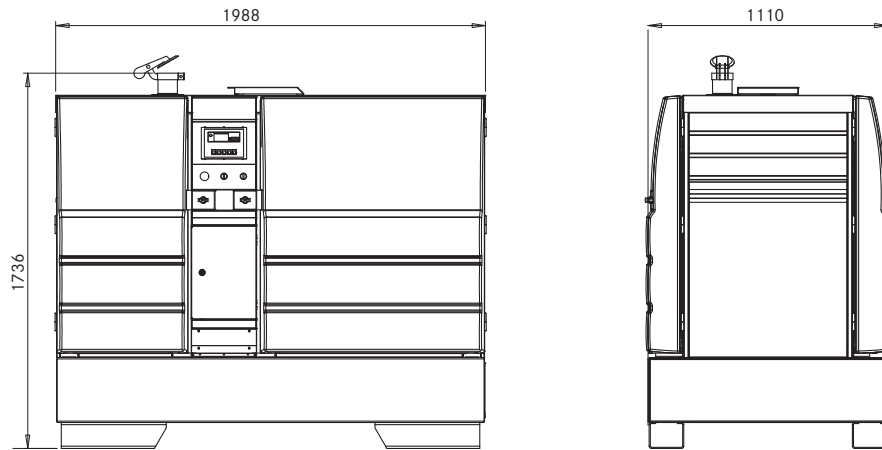
### // Exhaust System

	PRIME <sup>②</sup>
Max. exhaust gas temperature: °C	600
Max. exhaust back pressure: mbar	30
Exhaust gas flow: m <sup>3</sup> /h	610

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② Technical data for prime power

## WEIGHTS AND DIMENSIONS



Drawing above for illustration purposes only, based on standard sound proof 400 volt engine-generator set. Do not use for installation design. See website for unit specific template drawings.

System	Dimensions (L x W x H)	Weight (dry/less tank)
Sound Proof Unit (SPU)	1988 x 1110 x 1736 mm	approx. 1264 kg

## NOISE EMISSION (SOUND PROOF)

Sound power $L_{WA}$ : dB(A)	92
Sound power $L_{PA@1m}$ : dB(A)	75
Sound power $L_{PA@7m}$ : dB(A)	63

## RATING DEFINITIONS AND CONDITIONS

- // Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO 8528-1, ISO 3046-1, BS 5514, AS 2789, and DIN 6271.
- // Limited time power ratings apply to installations served by a reliable utility source. The standby rating is applicable to constant or varying loads for the duration of a power outage. No overload capability for this rating. Ratings are in accordance with ISO 8528-1, ISO 3046-1, BS 5514, AS 2789 and DIN 6271.
- // Deration factor:
  - Altitude: Consult your local MTU Onsite Energy distributor for altitude derations.
  - Temperature: Consult your local MTU Onsite Energy distributor for temperature derations.

Materials and specifications subject to change without notice.