DIESEL GENERATOR SET
TYPE ADG32D

32 kVA/Prime/50Hz
(35 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-friendlyness

SYSTEM RATINGS①

Prime (LTP) ②	ADG32D	ADG32D	ADG32D
Voltage (L-L)	**380V**	**400V**	**415V**
Phase	3	3	3
PF	0.8	0.8	0.8
Hz	50	50	50
kWe	25.6 (28)	25.6 (28)	25.6 (28)
kVA	32 (35)	32 (35)	32 (35)
AMPS	49	46	45
Generator model	ACG-0032-4-400	ACG-0032-4-400	ACG-0032-4-400
Temp rise	125°C (150°C)	125°C (150°C)	125°C (150°C)
Load acceptance	100%	100%	100%

① Power available up to 25°C/100 m
② Technical data for prime power

CERTIFICATIONS AND STANDARDS

// 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 EQUIPMENT①

// Engine

Air cleaners
Oil pump
Oil drain extension & S/O valve
Full pre-filter with water seperator
Full flow oil filters
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 ± 0,5%

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

STANDARD FEATURES[1]

// 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
// F3L 914 diesel engine — 4-cycle
// Engine-generator resilient mounted
// Self-exited 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[2]	F3L 914
Type	4-cycle
Arrangement	3/in-line
Displacement	3.24 l
Bore: cm	10.2
Stroke: cm	13.2
Compression ratio	20.6 :1
Rated RPM (speed)	1,500
Engine governor	Mechanical
Gross power: kWm[2]	33 kW
Aspiration	Natural aspiration

// Lubrication System

Oil capacity (sump) min./max.	9 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	130

// Fuel System

Recommended fuel	see MTU fluids & lubrication spec.

// Heat Rejection

	PRIME[2]
Engine radiation and convection: kW	approx. 25.8
Heat rejection of generator: kW	approx. 4.1

// Fuel Consumption and Fuel Tank Capacity

	PRIME[2]
At 100% load	7.1 l/h (205 g/kWh)
At 75% load	5.4 l/h (209 g/kWh)
At 50% load	4.0 l/h (230 g/kWh)
At 25% load	2.8 l/h (320 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[2]
Max. ambient temperature: °C	50
Fan power consumption: kW	0.5
Cooling air flow: m^3/h	1565
Air pressure loss: mbar	10

// Combustion Air

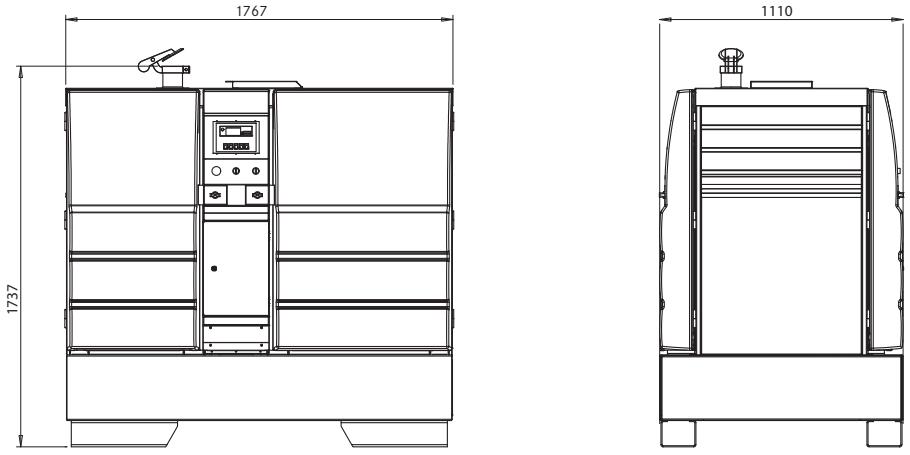
	PRIME[2]
Combustion air volume: m^3/h	131
Max. air intake restriction: mbar	20
Air cleaner type	Dry, replaceable element with safety catridge

// Exhaust System

	PRIME[2]
Max. exhaust gas temperature: °C	570
Max. exhaust back pressure: mbar	30
Exhaust Gas Flow: m^3/h	358

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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)	1767 x 1110 x 1737 mm	approx. 1058 kg

NOISE EMISSION (SOUND PROOF)

Sound power L_{WA}: dB(A)	91
Sound power L_{PA}@1m: dB(A)	74
Sound power L_{PA}@7m: dB(A)	62

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.

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Materials and specifications subject to change without notice.

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