MARINE

Auxiliary gensets





MAN ENGINES AS AUXILIARY GENSETS

Renowned manufacturers of auxiliary gensets and emergency gensets often use MAN engines. Reliable, durable and economical, MAN engines serve their purpose well in the power range from 190 kW to 800 kW.



CONTENTS

MAN Marine Engines

Customer Benefits	1
MAN Service 8	5
Exhaust Aftertreatment	3
Extended Warranty 8	3
MAN Genuine Parts)

Description of Engines

Auxiliary and Emergency Gensets	10
D2676	12
D2862	18
E3262	24

A RELIABLE DRIVING FORCE

- Low fuel consumption in a wide range of engine loads
- Maximum power output with a quick load pick-up
- Class-leading compactness for a space-saving design
- Best fuel consumption values and long service intervals minimizing the TCO
- Low acoustics and low vibrations
- Worldwide service network spare parts available within 24 hours



Extended warranty up to 3 years with Work PLUS|2



MAN Customer Service as back-up from the headquarters



Servicing and maintenance plans individually for you

Magellan Explorer – driven by three MAN D2862 LE328



MAN SERVICE **FOR NON-STOP OPERATION**

MAGELLAN EXPLORER

AAAAA21

MAN Engine Academy for a deeper understandig of engines

EXHAUST AFTERTREATMENT IMO TIER III (<1066 KW) AND EU STAGE V (<300 KW)

Flexibility makes use of free space – also when it comes to exhaust gas aftertreatment: Individual components of the modular exhaust aftertreatment kit from MAN Engines, which can be positioned variably, enable a wide range of installation variants as well as maximum design freedom when installed in machinery and vehicles.



Dimensions

drawings from our factory.

Type designation		SCR system
A-Overall width	mm	500
B-Overall length	mm	950
C-Overall height	mm	655
Average weight of SCR system	kg	115
For detailed examinations of installation dir	mensions.	olease order



EXHAUST AFTERTREATMENT EU STAGE V (> 300 KW)

MAN Engines expands its commercial marine engine portfolio to EU Stage V engines for inland waterway transport in a range from 368 kW (500 PS) to 1,066 kW (1450 PS).

For power ratings above 300 kW MAN Engines relies on selective catalytic reduction (SCR) and diesel particulate filters (DPF) to achieve the emission standards complying with EU Stage V.





Dimensions EU Stage V

on		SCR + DPF
	mm	960
I	mm	950
t	mm	620
of SCR system	kg	180

For detailed examinations of installation dimensions, please order drawings from our

EXTENDED WARRANTY MORE COMFORT FOR YOUR BUSINESS

Work PLUS warranty extension

All MAN engines for working boats are delivered ex works with a one-year warranty. This warranty is valid for the entire scope of supply from MAN, and is therefore also valid for all engine parts. Wearing parts and components that have to be replaced at regular maintenance intervals are excluded from the warranty. You have the option of taking out additional coverage for yourself and your investment beyond the one-year warranty: Work PLUS offer you an extension of the warranty by up to two additional years, meaning that the total warranty would be up to 4 years. The operating hours of your engine will depend on the application.

Customer Benefits

- The Work PLUS extensions cover all the MAN components in your engine room, including costintensive components such as the electronics and turbo charger
- The transferability of the extension increases the resale value of your vessel
- All maintenance work and repairs are carried out by an authorised MAN service partner
- You can be sure that all servicing and repairs will be performed exclusively using MAN Genuine Parts

For more information, please contact your local dealer.



Of course, the premium quality of your MAN engine is also reflected in high-quality MAN Genuine Parts. And because 'first class' doesn't only apply to our products here at MAN Engines, we ensure that our MAN Genuine Parts are available to you within 24 hours on working days.

Customer Benefits

- High utilization of your ship and flexibility when organising your journeys
- Quick alternative in original manufacturer quality
- Standard two-year warranty on all MAN Genuine Parts and MAN Genuines Parts ecoline
- in 95 countries

MAN GENUINE PARTS **AVAILABLE 24/7 AROUND THE WORLD**

Delivery to 2,000 shipping addresses

This is made possible by our global service network, external warehouses across all the continents, and the logistics network of our MAN utility vehicles. This roundthe-clock availability for MAN Genuine Parts applies to working days, and is for all spare parts for maintenance work on MAN engines for commercial shipping, such as filters, turbochargers, seawater pumps, seals and many more.

Our genuine engines deserve MAN Genuine Parts with two-year warranty and worldwide around-the-clock availability.

AUXILIARY GENSETS

Characteristics

- Annual operating hours: \leq 5,500 h
- Average load application: $\leq 75\%$

EMERGENCY GENSETS

Characteristics

- Annual operating hours: \leq 1,000 h
- Average load application: unlimited



D2676



Characteristics

- Cylinders and arrangement:
- Operation mode:
- Turbocharging:
- Number of valves:
- Fuel system:
- Engine block:
- Engine lubrication:
- Type of cooling:
- Engine control:
- Fuel:

6 cylinders in-line 4-stroke diesel engine, watercooled 4 valves per cylinder and replaceable cylinder liners circuit of the engine **DIN EN 590**

- Turbocharger with charge air intercooler and wastegate
- Common Rail direct fuel injection with electronic control
- High-strength casting with integrated oil and water ducts
- Force-feed lubrication, lubrication oil cooler in the cooling water
- Heat exchanger with engine and seawater circuit or for keel cooling
- Electronic engine monitoring including diagnostic unit

D2676





Dimensions

Type designation		LE 321/322/323/327/328/332
A-Overall width		983
B-Overall length	mm	1,763
C-Overall height – standard oil pan	mm	1,103
D-Top of engine to crankshaft centre	mm	686
E-Length of engine from front end to edge of flywheel housing	mm	1,494
Average weight of engine ready for installation (dry)	kg	1,251

For detailed examinations of installation dimensions, please order drawings from our factory.

Technical features

			Auxiliary ger	nsets	
Type designation		LE 332		LE 322	
Rated speed	rpm (Hz)	1,500 (50)	1,800 (60)	1,500 (50)	1,800 (60)
Displacement		12.42	12.42	12.42	12.42
Nominal rating ¹⁾	kW (hp)	190 (258)	220 (299)	280 (381)	330 (449)
Specific fuel consumption at rated power	g/kWh	210	208	203	199
Specific fuel consumption at 75 % load ¹⁾	g/kWh	213	213	205	201
Classifiable		✓	✓	✓	1
Exhaust gas aftertreatment		_		_	_
Exhaust gas status		IMO Tier II	IMO Tier II	IMO Tier II	IMO Tier II

1) Tolerance +5 % according to DIN ISO 3046-1



Technical features

			Auxiliary ger	nsets	
Type designation		LE 328		LE 327	
Rated speed	rpm (Hz)	1,500 (50)	1,800 (60)	1,500 (50)	1,800 (60)
Displacement		12.42	12.42	12.42	12.42
Nominal rating ¹⁾	kW (hp)	290 (394)	290 (394)	360 (490)	410 (558)
Specific fuel consumption at rated power	g/kWh	197	201	195	202
Specific fuel consumption at 75 % load ¹⁾	g/kWh	196	201	195	199
Classifiable		✓	✓	✓	1
Exhaust gas aftertreatment		✓	✓	✓	1
Exhaust gas status		IMO Tier III, EU Stage V	IMO Tier III, EU Stage V	IMO Tier III	IMO Tier III

Auxiliary	Auxiliary gensets LE 321 1,500 (50) 1,800 (60) 12.42 12.42	Emergency gens
LE	321	LE 323
1,500 (50)	1,800 (60)	1,500 (50)
12.42	12.42	12.42
375 (510)	445 (605)	375 (510)
200	198	200
200	197	200
✓	✓	✓
IMO Tier II	IMO Tier II	IMO Tier II

1) Tolerance +5 % according to DIN ISO 3046-1

ensets

1,800 (60)
12.42
445 (605)
198
197
✓
_

IMO Tier II

19



Characteristics

- Cylinders and arrangement:
- Operation mode:
- Turbocharging:
- Number of valves:
- Fuel system:
- Engine block:
- Engine lubrication:
- Type of cooling:
- Engine control:
- Fuel:

12 cylinders in 90° V arrangement 4-stroke diesel engine, watercooled 4 valves per cylinder and replaceable cylinder liners Plate heat exchanger, seawater circuit or for keel cooling **DIN EN 590**

- Turbocharger with charge air intercooler and wastegate
- Common Rail direct fuel injection with electronic control
- High-strength casting with integrated oil and water ducts
- Closed system with forced feeding, oil cooling and filtering
- Electronic engine monitoring including diagnostic unit





Dimensions

Type designation		LE 321/323	LE 327/32A/32D	LE 322	LE 328/32B/32E
A-Overall width	mm	1,273	1,151	1,273	1,151
B-Overall length r	mm	2,129	2,003	2,119	2,023
C-Overall height – standard oil pan r	mm	1,282	1,268	1,305	1,281
D-Top of engine to crankshaft centre	mm	815	803	838	816
E-Length of engine from front end to edge of flywheel housing r	mm	1,629	1,608	1,629	1,608
Average weight of engine ready for installation (dry)	kg	2,280	2,280	2,280	2,280

For detailed examinations of installation dimensions, please order drawings from our factory.

Technical features

			Auxiliary	gensets			
Type designation		LE 3	22	LE 3	LE 328		LE 32E
Rated speed	rpm (Hz)	1,500 (50)	1,800 (60)	1,500 (50)	1,800 (60)	1,500 (50)	1,800 (60)
Displacement	I	24.24	24.24	24.24	24.24	24.24	24.24
Nominal rating ¹⁾	kW (hp)	600 (816)	700 (952)	600 (816)	700 (952)	600 (816)	700 (952)
Specific fuel consumption at rated power	g/kWh	196	200	195	199	196	198
Specific fuel consumption at 75 % load ¹⁾	g/kWh	198	202	196	199	196	198
Classifiable		1	1	✓	✓	✓	
Exhaust gas aftertreatment		-	-	✓	✓	✓	✓
Exhaust gas status		IMO Tier II	IMO Tier II	IMO Tier III	IMO Tier III	IMO Tier III, EU Stage V	IMO Tier III, EU Stage V

1) Tolerance +5 % according to DIN ISO 3046-1



Technical features

	Auxiliary gensets					Emergen	Emergency gensets			
Type designation		LE 321		LE 327		LE 32A LE 32D		LE	LE 323	
Rated speed	rpm (Hz)	1,500 (50)	1,800 (60)	1,500 (50)	1,800 (60)	1,500 (50)	1,800 (60)	1,500 (50)	1,800 (60)	
Displacement	I	24.24	24.24	24.24	24.24	24.24	24.24	24.24	24.24	
Nominal rating ¹⁾	kW (hp)	700 (952)	800 (1088)	700 (952)	800 (1088)	700 (952)	800 (1088)	700 (952)	800 (1088)	
Specific fuel consumption at rated power	g/kWh	197	198	199	202	198	200	197	198	
Specific fuel consumption at 75 % load ¹⁾	g/kWh	198	201	197	201	197	198	198	201	
Classifiable			1	1						
Exhaust gas aftertreatment	t			1	✓	✓	✓			
Exhaust gas status		IMO Tier II	IMO Tier II	IMO Tier III	IMO Tier III	IMO Tier III, EU Stage V	"IMO Tier III, EU Stage V"	IMO Tier II	IMO Tier II	

1) Tolerance +5 % according to DIN ISO 3046-1



Characteristics

- Cylinders and arrangement:
- Operation mode:
- Turbocharging:
- Number of valves:
- Exhaust pipes:
- n Fuel:

12 cylinders in 90° V arrangement 4-stroke spark-ignition gas engine Oil lubricated turbochargers with wet bearing block and wet turbine housing 4 valves per cylinder Dry exhaust pipes with heat insulation cover and cover against direct contact Natural gas





Dimensions

Type designation		LE 262
A-Overall width		1,242
B-Overall length	mm	1,851
C-Overall height – standard oil pan	mm	1,268
Average weight of engine ready for installation (dry)	kg	1,986

For detailed examinations of installation dimensions, please order drawings from our factory.

Technical features

		Auxiliary genset	t	
Type designation		LE 262		
Rated speed	rpm (Hz)	1,500 (50)	1,800 (60)	
Bore	mm	132	132	
Stroke	mm	157	157	
Displacement		25.78	25.78	
ISO standard power ¹⁾	kW (hp)	500 (680)	525 (714)	
Air-fuel ratio	λ	1.69	1.71	
Coolant heat ²⁾	kW	269	315	
Exhaust heat based on 120 °C ²⁾	kW	288	329	
Efficiency ²⁾ : mechanical – thermal –	total %	40.3 - 49.3 - 89.6	38.0 - 46.6 - 84.6	
Classifiable		✓	1	
Exhaust gas status		EU Stage V	MO Tier III, EU Stage V	

Notes	Notes	

MAN Truck & Bus SE

Vogelweiherstr. 33 90441 Nuremberg, Germany man-engines@man.eu www.man-engines.com

D 114.643 · wd05222 · Printed in Germany

All data provided in this document is non-binding. This data serves informational purposes only and is especially not guaranteed in any way. Depending upon the subsequent specific individual projects, the relevant data may be subject to changes and will be assessed and determined individually for each project. This will depend on the particular characteristics of each individual project, especially specific site and operational conditions.

MAN Truck & Bus – A company of the TRATON Group