

MAN Emergency Diesel Generators

Our expertise over 40 years enables us to provide safe and highly reliable emergency power solutions. We also provide technical support throughout the project, from the earliest specification stages through to commissioning and servicing. All MAN emergency power solutions meet the strict international safety standards of the nuclear industry. The engines offer high availability and reliability rates, which are confirmed by the relevant qualification tests as well as proven in operational use. The long track record of the engines confirms their total suitability for the needs of the nuclear industry.

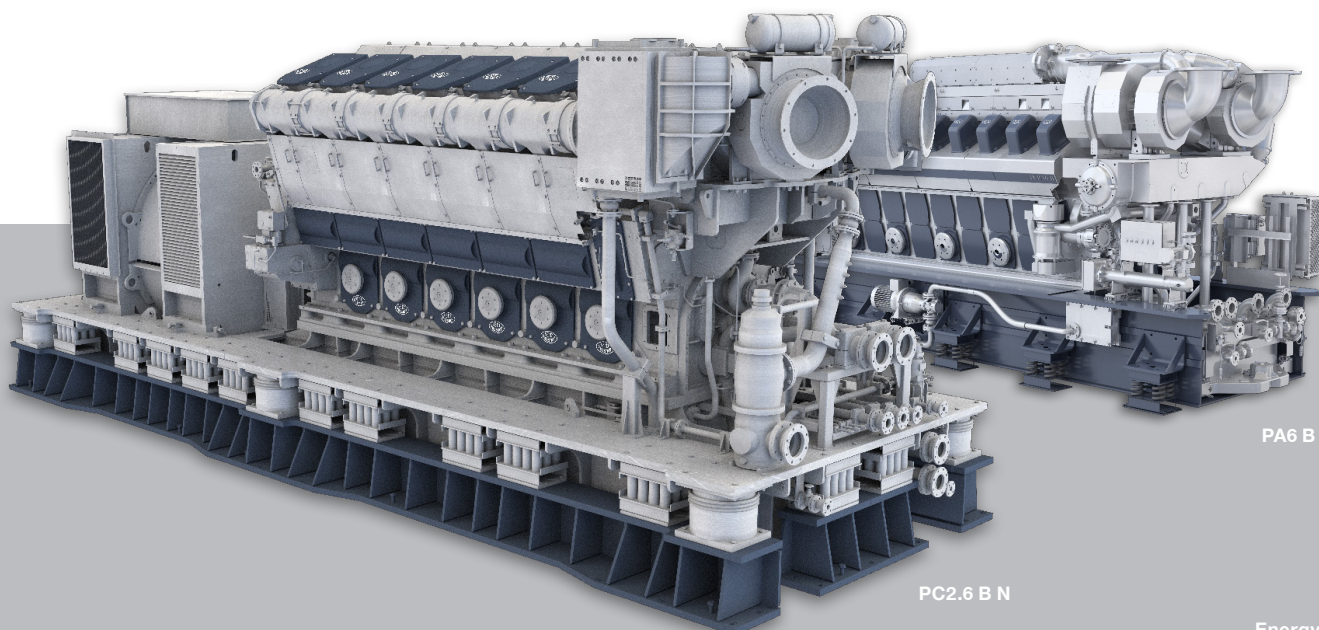
They can be precisely adapted to individual customer requirements and benefit from continuous technical improvements based on operational experience.

PA6 B N and PC2.6 B N combine the widest power range on the market – from 4MW up to 12MW.

These two engine types have the versatility and power range to meet the needs of a diverse range of emergency power systems.

Benefits at a glance

- Extensive experience with nuclear standards
- Over 400 emergency generators in more than 80 nuclear power plants in 18 countries supplied
- Fast starting under any conditions
- Rapid response to changing load demand
- Compact plug and play concept



PA6 B N

PC2.6 B N

S.E.M.T Pielstick PC2.6 B N

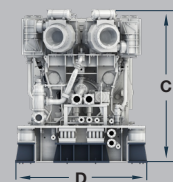
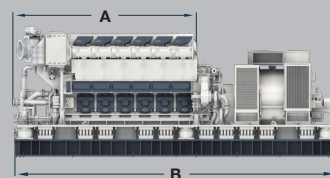
PC2.6 B N medium-speed engines 8,6 MW to 12 MW
Highest power range in its class

Bore 400 mm, Stroke 500 mm		12V	14V	16V
MRC	kW _m	8,640	10,500	12,000
(maximum continuous rating)	kW _e	8,380	10,155	11,640
Engine speed 50/60Hz	rpm	600	600	600

Dimensions		12V	14V	16V
A	mm	7,850	8,590	9,550
B	mm	11,890	12,630	13,590
C	mm	4,900	4,900	5,000
D	mm	4,100	4,100	4,100
Genset dry mass	t	210	245	280

Nominal generator efficiencies: 97%.

All dimensions and masses are approximate and subject to change without prior notice.



S.E.M.T Pielstick PA6 B N

PA6 B N high-speed engines 4,2 MW to 7 MW
Compact plug-and-play concept

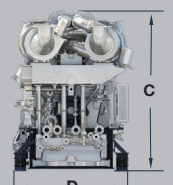
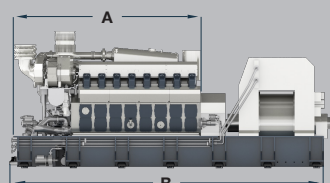
Bore 280 mm, Stroke 330 mm		12V	18V	20V
60 Hz at 900 rpm	kW _m / kW _e	4,200/4,074	6,300/6,111	7,000/6,790
50 Hz at 1000 rpm ¹	kW _m / kW _e	4,440/4,307	6,630/6,460	7,400/7,178

¹ 110% overload available

Dimensions		12V	18V	20V
A	mm	4,936	6,316	6,786
B	mm	8,920	10,300	10,760
C	mm	3,695	3,695	3,695
D	mm	2,825	2,825	2,825
Genset dry mass	t	70	106	109

Nominal generator efficiencies: 97%.

All dimensions and masses are approximate and subject to change without prior notice.



Values according to ISO 3046-1:2002; ISO 15550:2002. Last updated May 2022

Engine features

Applications

- Emergency diesel generators for nuclear power plants or mission critical application
- Hybrid and baseload power plants

Black start capability

- Engine driven pumps for all fluid systems
- Compressed air starting system
- Hydraulic speed governor

Engine Output (kW)



Starting time & loading

- < 15 s from start order to nominal speed
- 100% load in < 60 s

Reliability

- MTBF > 2000 h
- Startup and loading failure rate <1%

Ambient conditions

- Reliable even in severe seismic conditions
- Extreme temperature ranges between -45°C to +45°C and wider

Expert support in all aspects of

- Licensing
- Engineering
- Procurement
- Services

International standards

- IEEE 387
- KTA 3702
- RCC-E
- IEC

Project management standards

- ISO 9001
- GS-R-3
- 10CFR 500 Appendix B

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