**Technical Data**

**PC2.6 B N Emergency Diesel Generators**

### Base 400 mm, Stroke 500 mm

<table>
<thead>
<tr>
<th>Voltage (V)</th>
<th>12 V</th>
<th>14 V</th>
<th>16 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCR (kW)</td>
<td>8,640</td>
<td>10,500</td>
<td>12,000</td>
</tr>
<tr>
<td>Peak (kW)</td>
<td>8,380</td>
<td>9,155</td>
<td>10,640</td>
</tr>
</tbody>
</table>

**Engine speed (rpm)**

- 500
- 600
- 600

**Dimensions**

<table>
<thead>
<tr>
<th>Component</th>
<th>12 V</th>
<th>14 V</th>
<th>16 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (mm)</td>
<td>7,400</td>
<td>8,000</td>
<td>8,950</td>
</tr>
<tr>
<td>B (mm)</td>
<td>11,890</td>
<td>12,630</td>
<td>13,590</td>
</tr>
<tr>
<td>C (mm)</td>
<td>4,900</td>
<td>4,900</td>
<td>5,000</td>
</tr>
<tr>
<td>D (mm)</td>
<td>4,100</td>
<td>4,100</td>
<td>4,100</td>
</tr>
</tbody>
</table>

**Genset dry mass (t)**

- 210
- 245
- 280

**Nominal generator efficiencies**: 97%

**All data provided in this document is non-binding. This data serves informational purposes only and all technical properties are for reference. Technical data is to be considered non-binding and subject to change. The manufacturer reserves all rights to make changes to the design, construction, equipment, supplies, etc. without notice as a result of ongoing improvements and changes in its products.**

**MAN Diesel & Turbo France SAS, March 2016**

---

**Engine**

- Bore 400 mm, Stroke 500 mm
- 12 V 14 V 16 V
- MCR (maximum continuous rating)
  - kW: 8,640 10,500 12,000
  - kWe: 8,380 10,185 11,640
- Engine speed (rpm): 500 600 600
- Heat rate: 7,771 kJ/kWh 8,012 kJ/kWh
- Specific lube oil consumption: 0.3 - 0.6 kg/cyl.h

**Dimensions**

<table>
<thead>
<tr>
<th>Component</th>
<th>12 V</th>
<th>14 V</th>
<th>16 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>A (mm)</td>
<td>7,400</td>
<td>8,000</td>
<td>8,950</td>
</tr>
<tr>
<td>B (mm)</td>
<td>11,890</td>
<td>12,630</td>
<td>13,590</td>
</tr>
<tr>
<td>C (mm)</td>
<td>4,900</td>
<td>4,900</td>
<td>5,000</td>
</tr>
<tr>
<td>D (mm)</td>
<td>4,100</td>
<td>4,100</td>
<td>4,100</td>
</tr>
</tbody>
</table>

**Genset dry mass (t)**

- 210
- 245
- 280

**Technical Data**

**PC2.6 B N Emergency Diesel Generators**

**MAN Diesel & Turbo France SAS**

La Renferne Port, Bldc 23
72, Avenue des Habitations
91801 Roncey Charles de Gaulle Cedex France
Phone: +33 1 48176336
Fax: +33 1 48176349
sales.nuclear@mandieselturbo.com
www.mandieselturbo.com

**Engineering the future - since 1758**

**MAN Diesel & Turbo**
MAN Diesel & Turbo France
Leading solutions for Emergency Diesel Generators

The PC2.6 B N medium-speed diesel engine has a rated nominal output per cylinder of 720 to 750 kW. It is available in 12V, 14V and 16V configuration providing 7 MWe to 12 MWe respectively.

Experience
The PC2 engine is supplied under the brand name “S.E.M.T. Pielstick”. Featuring a 400 mm bore, it has been extensively used in both navy and nuclear applications. The PC2.6 B N is the most recent version of this well-proven engine.

Main characteristics
With its compact dimensions, low specific mass and low specific fuel consumption, this engine can burn all residual fuels. It has a moderate BMEP and the 600 rpm rated speed enables it to run on either 50 Hz or 60 Hz networks.

Maintenance
For maximum ease of maintenance, the highly reliable PC2.6 B N offers easy access to the main components and straightforward dismantling, using a minimum of special tools. This ensures rapid maintenance, repair and overhaul cycles.

After-sales service
After-sales service is provided by the MAN PrimeServ France organization and a worldwide network of approved and licensed repairers. To ensure continuity and seamless service support, our production centers in Europe, Africa, Asia and America are in constant touch with our many service centers throughout the world. They hold good stocks of spare and provide all necessary technical assistance.

Nuclear-qualified diesel engines
As the key component of the generating set, diesel engines play a vital role in ensuring the safety of the whole nuclear power plant. PC2 diesel engines have already proven their reliability and durability in a host of conventional applications. They are fully certified for nuclear applications in numerous countries, including China, France, Japan, Korea and the USA. Nuclear qualification is awarded only after stringent testing in accordance with standards such as the KTA 3807. This involves from 150 to as many as 300 consecutive hot and cold starts of the generating set.

Dependability in extreme conditions
The PC2 engine is also Safety Class qualified, which demonstrates their ability to operate safely and reliably under seismic conditions. Certification is achieved either by computer simulation or physical testing. The many standards that the PC engines have achieved during their long track record in a wide variety of highly demanding applications is evidence of their quality, efficiency and reliability.

Quality assurance
MAN Diesel & Turbo France is certified in accordance with the international quality assurance and environment standards ISO 9001:2008 and ISO 14001:2014. If required additional nuclear quality assurance requirements can be implemented through a specific quality assurance program (e.g. GS-R3- former 50-S/G/Q-2a from the NUREG-1000). MAN Diesel & Turbo France already proves its quality, efficiency and reliability in a whole nuclear power plant. PC2 diesel engines have already appreciated their reliability and durability in a host of conventional applications. They are fully certified for nuclear applications in numerous countries.

High reliability
- Mean Time Between Failure (MTBF) > 3000 h
- Reliability >99% for start-up tests and loading conditions
- Conservative SWEP (from 24 bars) and speed (ISO cpr)
- Direct mechanical injection system
- Software-free speed and voltage regulation systems (option)

Black start capability
- Engine driven pumps for all fluid systems
- Redundant starting air systems with manual actuated starting valves
- Hydraulic speed governor
- Alternator with self excitation system

Ease of installation
- All flanged connection at one hand of the base frame
- On-board equipment reducing piping and supports out of the generator
- Integrated lube oil pump up to 10 days capacity
- Simple footprint and concrete slab design

Designed to withstood high load seismic conditions
- Resilient mounting and dampers according to seismic level
- Heavy duty available for severe conditions
- Reinforced general shaft bearing

Service friendly
- 24/7 support by MAN Diesel & Turbo global service network
- Full scale maintenance training at MAN PrimeServ Academy

Quality
- Single bearing
- PMG excitation system
- Suitable with fire fighting operation

The most powerful emergency generator solution on site
- Fast starting: synchronization within 10 s
- Long-term operation capability at load
- Severe load pick up thanks to large cylinder bore and low inertia turbochargers
- Wide air intake temperature range

Robust and Reliable by Nature
PC2.6 B N Emergency Diesel Generators

Synchronizer
- Direct mechanical injection system
- Conservative BMEP (<24 bar) and speed (600 rpm)
- Reliability >99% for start-up tests and loading conditions
- Software-free speed and voltage regulation systems (option)

Dependability in extreme conditions
- Engine driven pumps for all fluid systems
- Redundant starting air systems with manual actuated starting valves
- Hydraulic speed governor
- Alternator with self excitation system

Ease of installation
- All flanged connection at one hand of the base frame
- On-board equipment reducing piping and supports out of the generator
- Integrated lube oil pump up to 10 days capacity
- Simple footprint and concrete slab design

Designed to withstood high load seismic conditions
- Resilient mounting and dampers according to seismic level
- Heavy duty available for severe conditions
- Reinforced general shaft bearing

Service friendly
- 24/7 support by MAN Diesel & Turbo global service network
- Full scale maintenance training at MAN PrimeServ Academy

Quality
- Single bearing
- PMG excitation system
- Suitable with fire fighting operation

The most powerful emergency generator solution on site
- Fast starting: synchronization within 10 s
- Long-term operation capability at load
- Severe load pick up thanks to large cylinder bore and low inertia turbochargers
- Wide air intake temperature range

Robust and Reliable by Nature
PC2.6 B N Emergency Diesel Generators

Synchronizer
- Direct mechanical injection system
- Conservative BMEP (<24 bar) and speed (600 rpm)
- Reliability >99% for start-up tests and loading conditions
- Software-free speed and voltage regulation systems (option)