

MARINE GENSETS





All Volvo Penta gensets are delivered complete and tested, ready for installation on board. All equipment and sets are type approved by the major classification societies and can be delivered with certification.

Compact yet easy to service

Volvo Penta is known for compact engines and gensets that enhance service accessibility in engine rooms. Designed for quick, efficient maintenance, our engines are compatible with computerized diagnostic tools to simplify troubleshooting. We also offer a range of constant and variable speed gensets, factory-made to meet various power requirements with high efficiency and reliability, ensuring optimal performance in all conditions.

Fully compatible monitoring systems

Based on the Modbus protocol and equipped with a large number of hardwire contacts, the Volvo Penta control and monitoring system enables fast and safe integration with most switchboards and power management systems available on the market. The monitoring system and its range of functions – e.g. auto-start, shut-down and alarms – comply with all international standards.

Meeting future emission standards

Our engine range meets the current exhaust emission requirements and many of our engines already comply with the emission standards which come into effect over the next couple of years.

D8 MARINE GENSET



6-cylinder, 4 stroke, direct-injected, common rail, turbo-charged, and aftercooled marine diesel engine.

Bore x Stroke (mm): 110 x 135

Displacement (l): 7,7

MARINE GENSET HE, 1500RPM, 50HZ, CLASS F (105K AT 40°C)

| Voltages– kWe | | | | | | Emission certificate** | Emissions curve | Cooling system |
|------------------|-----|-----|-----|-----|-----|------------------------|-----------------|----------------|
| Series Star | 380 | 400 | 415 | 440 | 690 | | | |
| Parallel Star | 190 | 200 | 208 | 220 | 345 | | | |
| Series Delta | 220 | 230 | 240 | 254 | 400 | | | |
| D8 MG / UCM274G | 119 | 119 | 119 | — | 116 | 1, 4, 6 | D2/E2 | HE, KC |
| D8 MG / UCM274H | 136 | 136 | 136 | — | 136 | 1, 4, 6 | D2/E2 | HE, KC |
| D8 MG / S4L1MC41 | 168 | 168 | 168 | 168 | 160 | 1, 4, 6 | D2/E2 | HE, KC |
| D8 MG / S4L1MD41 | 184 | 184 | 184 | 184 | 180 | 1, 4, 6 | D2/E2 | HE, KC |
| D8 MG / S4L1ME41 | 216 | 220 | 220 | 220 | 208 | 1, 4, 6 | D2/E2 | HE, KC |
| D8 MG / S4L1MF41 | 223 | 223 | 223 | 223 | 223 | 1, 4, 6 | D2/E2 | HE, KC |

HE = Heat Exchanger, KC= Keel

MARINE GENSET HE, 1800RPM, 60HZ, CLASS F (105K AT 40°C)

| Voltages– kWe | | | | | | Emission certificate** | Emissions curve | Cooling system |
|------------------|-----|-----|-----|-----|-----|------------------------|-----------------|----------------|
| Series Star | 416 | 440 | 460 | 480 | 600 | 690 | | |
| Parallel Star | 208 | 220 | 230 | 240 | 300 | 345 | | |
| Series Delta | 240 | 254 | 266 | 277 | 346 | 400 | | |
| D8 MG / UCM274G | 137 | 149 | 151 | 151 | 145 | — | 1, 4, 6 | D2/E2 HE, KC |
| D8 MG / UCM274H | 160 | 170 | 175 | 175 | 175 | 162 | 1, 4, 6 | D2/E2 HE, KC |
| D8 MG / S4L1MC41 | 192 | 196 | 200 | 204 | 204 | 212 | 1, 4, 6 | D2/E2 HE, KC |
| D8 MG / S4L1MD41 | 204 | 216 | 224 | 236 | 236 | 228 | 1, 4, 6 | D2/E2 HE, KC |
| D8 MG / S4L1ME41 | 252 | 257 | 257 | 257 | 257 | 256 | 1, 4, 6 | D2/E2 HE, KC |
| D8 MG / S4L1MF41 | 257 | 257 | 257 | 257 | 257 | 257 | 1, 4, 6 | D2/E2 HE, KC |

HE = Heat Exchanger, KC= Keel

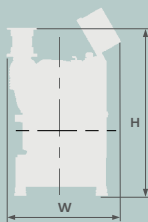
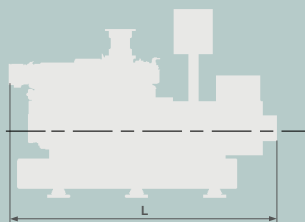
DIMENSIONS AND WEIGHTS*

| Engine | L (mm) | W (mm) | H (mm) | kg | lb |
|----------------|--------|---------|--------|------|------|
| D8 MG/UCM274H | 2259 | 1051.50 | 1650 | 1496 | 3298 |
| D8 MG/S4L1MC41 | 2513 | 1051.50 | 1650 | 1710 | 3780 |
| D8 MG/S4L1MD41 | 2513 | 1051.50 | 1650 | 1810 | 3990 |
| D8 MG/S4L1ME41 | 2513 | 1051.50 | 1650 | 1894 | 4176 |
| D8 MG/S4L1MF41 | 2603 | 1051.50 | 1650 | 2030 | 4475 |

* Dimensions and weights based on heat-exchanger cooled, single-bearing gensets.

** Emission Certificate:

- 1 – IMO tier II
- 4 – China II
- 6 – IMO tier III



D13 MARINE GENSET

6-cylinder, 4-stroke, direct-injected, turbo-charged, and aftercooled marine diesel engine.

Bore x Stroke (mm): 131 x 158

Displacement (l): 12.78



MARINE GENSET HE, 1500RPM, 50HZ, CLASS F (105K AT 40°C)

| Voltages– kWe | | | | | | Emission certificate** | Emissions curve | Cooling system |
|------------------------|-----|-----|-----|-----|-----|------------------------|-----------------|----------------|
| Series Star | 380 | 400 | 415 | 440 | 690 | | | |
| Parallel Star | 190 | 200 | 208 | 220 | 345 | | | |
| Series Delta | 220 | 230 | 240 | 254 | 400 | | | |
| D13 MG / S4L1MF41 | 248 | 248 | 248 | 248 | 240 | 2, 6, 7 | D2/E2 | HE, KC, RC |
| D13 MG / S5L1MC41 | 284 | 284 | 284 | 284 | 272 | 2, 6, 7 | D2/E2 | HE, KC, RC |
| D13 MG / S5L1MD41 | 324 | 332 | 332 | 332 | 324 | 2, 6 | D2/E2 | HE, KC, RC |
| D13 MG (FE) / S4L1MF41 | 248 | 248 | 248 | 248 | 240 | 6 | D2/E2 | HE, KC, RC |
| D13 MG (FE) / S5L1MC41 | 284 | 284 | 284 | 284 | 272 | 6 | D2/E2 | HE, KC, RC |
| D13 MG (FE) / S5L1MD41 | 324 | 332 | 332 | 332 | 324 | 6 | D2/E2 | HE, KC, RC |

HE = Heat Exchanger, KC= Keel, RC = Radiator

MARINE GENSET HE, 1800RPM, 60HZ, CLASS F (105K AT 40°C)

| Voltages– kWe | | | | | | Emission certificate** | Emissions curve | Cooling system |
|------------------------|-----|-----|-----|-----|-----|------------------------|-----------------|----------------|
| Series Star | 416 | 440 | 460 | 480 | 600 | 690 | | |
| Parallel Star | 208 | 220 | 230 | 240 | 300 | 345 | | |
| Series Delta | 240 | 254 | 266 | 277 | 346 | 400 | | |
| D13 MG / S4L1MF41 | 292 | 300 | 300 | 300 | 300 | 300 | 2, 6, 7 | D2/E2 HE, KC |
| D13 MG / S5L1MC41 | 341 | 341 | 341 | 341 | 341 | 341 | 2, 6, 7 | D2/E2 HE, KC |
| D13 MG / S5L1MD41 | 370 | 380 | 380 | 380 | 380 | 380 | 2, 6 | D2/E2 HE, KC |
| D13 MG (FE) / S4L1MF41 | 292 | 300 | 300 | 300 | 300 | 300 | 1 | D2/E2 HE, KC |
| D13 MG (FE) / S5L1MC41 | 341 | 341 | 341 | 341 | 341 | 341 | 1 | D2/E2 HE, KC |
| D13 MG (FE) / S5L1MD41 | 370 | 380 | 380 | 380 | 380 | 380 | 1 | D2/E2 HE, KC |

HE = Heat Exchanger, KC= Keel

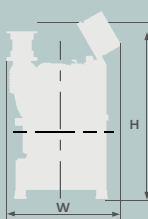
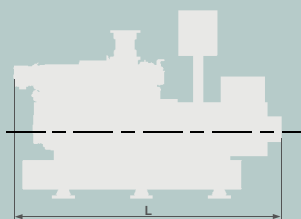
DIMENSIONS AND WEIGHTS*

| Engine | L (mm) | W (mm) | H (mm) | kg | lb |
|------------------|--------|--------|--------|------|------|
| D13 MG/ S4L1MF41 | 3147 | 1086 | 1814 | 3070 | 6768 |
| D13 MG/ S5L1MC41 | 3219 | 1086 | 1813 | 3175 | 6999 |
| D13 MG/ S5L1MD41 | 2817 | 1174 | 1799 | 3305 | 7286 |

* Dimensions and weights based on heat-exchanger cooled, single-bearing gensets.

** Emission Certificate:

- 1 – IMO tier II
- 2 – EPA Tier 3
- 6 – IMO tier III
- 7 – Stage V



Not for installation.

D16 MARINE GENSET



6-cylinder, 4-stroke, direct-injected, turbo-charged, and aftercooled marine diesel engine.

Bore x Stroke (mm): 144 x 165

Displacement (l): 16.1

MARINE GENSET HE, 1500RPM, 50HZ, CLASS F (105K AT 40°C)

| Voltages– kWe | | | | | | Emission certificate** | Emissions curve | Cooling system |
|------------------------|-----|-----|-----|-----|-----|------------------------|-----------------|----------------|
| Series Star | 380 | 400 | 415 | 440 | 690 | | | |
| Parallel Star | 190 | 200 | 208 | 220 | 345 | | | |
| Series Delta | 220 | 230 | 240 | 254 | 400 | | | |
| D16 MG / S5L1ME41 | 380 | 392 | 404 | 404 | 352 | 1, 2, 4, 6 | D2/E2 | HE, KC, RC |
| D16 MG / S5L1MF41 | 404 | 420 | 427 | 427 | 404 | 1, 2, 4, 6 | D2/E2 | HE, KC, RC |
| D16 MG / S6L1MC41 | 504 | 505 | 505 | 505 | 504 | 1, 2, 4, 6 | D2/E2 | HE, KC, RC |
| D16 MG / LSAM 47.3 L10 | 472 | 472 | 472 | — | 400 | 1, 2, 4, 6 | D2/E2 | HE, KC, RC |
| D16 MG / LSAM 49.3 S4 | — | — | — | — | 440 | 1, 2, 4, 6 | D2/E2 | HE, KC, RC |
| D16 MG / LSAM 49.3 M6 | 504 | 504 | 504 | — | 480 | 1, 2, 4, 6 | D2/E2 | HE, KC, RC |

HE = Heat Exchanger, KC= Keel, RC = Radiator

MARINE GENSET HE, 1800RPM, 60HZ, CLASS F (105K AT 40°C)

| Voltages– kWe | | | | | | Emission certificate** | Emissions curve | Cooling system |
|------------------------|-----|-----|-----|-----|-----|------------------------|-----------------|------------------|
| Series Star | 416 | 440 | 460 | 480 | 600 | 690 | | |
| Parallel Star | 208 | 220 | 230 | 240 | 300 | 345 | | |
| Series Delta | 240 | 254 | 266 | 277 | 346 | 400 | | |
| D16 MG / S5L1ME41 | 450 | 470 | 475 | 475 | 472 | 475 | 1, 2, 6 | D2/E2 HE, KC, RC |
| D16 MG / S5L1MF41 | 495 | 505 | 505 | 505 | 502 | 502 | 1, 2, 4, 6 | D2/E2 HE, KC, RC |
| D16 MG / S6L1MC41 | 555 | 555 | 555 | 555 | 555 | 555 | 1, 4, 6 | D2/E2 HE, KC, RC |
| D16 MG / LSAM 47.3 L10 | — | 505 | 505 | 505 | — | 436 | 1, 2, 4, 6 | D2/E2 HE, KC, RC |
| D16 MG / LSAM 49.3 S4 | — | — | — | — | — | 500 | 1, 2, 4, 6 | D2/E2 HE, KC, RC |
| D16 MG / LSAM 49.3 M6 | — | 504 | 504 | 504 | — | 503 | 1, 2, 4, 6 | D2/E2 HE, KC, RC |
| D16 MG / LSAM 49.7 S4 | | | | | | 525 | 6 | D2/E2 HE, KC, RC |

HE = Heat Exchanger, KC= Keel

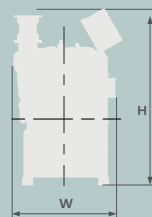
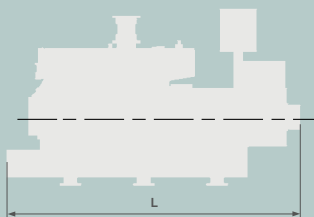
DIMENSIONS AND WEIGHTS*

| Engine | L (mm) | W (mm) | H (mm) | kg | lb |
|-----------------|--------|--------|--------|------|------|
| D16 MG/S5L1ME41 | 3122 | 1177 | 1842 | 3776 | 8325 |
| D16 MG/S5L1MF41 | 3122 | 1177 | 1842 | 4034 | 8894 |
| D16 MG/S6L1MC41 | 3265 | 1177 | 1842 | 4271 | 9396 |

* Dimensions and weights based on heat-exchanger cooled, single-bearing gensets.

** Emission Certificate:

- 1 – IMO tier II
- 2 – EPA Tier 3
- 4 – China II
- 6 – IMO tier III



MARINE VARIABLE SPEED GENSET



VARIABLE SPEED MARINE GENSET HE, 1500RPM, 50HZ, CLASS F (105K AT 40°C)

| Engine | Crankshaft power (kWm) | Electrical power (kWe) | Displacement Liter Inches | Emission certificate** | Emissions curve | Cooling system |
|---------------|---------------------------|---------------------------|------------------------------|------------------------|-----------------|----------------|
| D8-MH (VG) | 221 | 193 @ 1800rpm | 7.7 469.7 | 1 | C1 | HE, KC |
| D8-MH (VG) | 296 | 240 @ 2100rpm | 7.7 469.7 | 1 | C1 | HE, KC |
| D8-MH (VG) | 221 | 193 @ 1800rpm | 7.7 469.7 | 6 | C1 | HE, KC |
| D8-MH (VG) | 296 | 240 @ 2100rpm | 7.7 469.7 | 6 | C1 | HE, KC |
| D13-MH (VG)FE | 294 | 257 @ 1800rpm | 12.8 780 | 1 | C1 | HE, KC, RC |
| D13-MH (VG)FE | 368 | 277 @ 1800rpm | 12.8 780 | 1 | C1 | HE, KC, RC |
| D13-MH (VG)FE | 441 | 385 @ 1900rpm | 12.8 780 | 1 | C1 | HE, KC, RC |
| D13-MH (VG) | 294 | 257 @ 1800rpm | 12.8 780 | 6 | C1 | HE, KC, RC |
| D13-MH (VG) | 368 | 277 @ 1800rpm | 12.8 780 | 6 | C1 | HE, KC, RC |
| D13-MH (VG) | 441 | 385 @ 1900rpm | 12.8 780 | 6 | C1 | HE, KC, RC |

HE = Heat Exchanger, KC= Keel, RC = Radiator

DIMENSIONS AND WEIGHTS

Sizes and weight - see the respective engine on the previous pages.

** Emission Certificate:

1 – IMO tier II

6 – IMO tier III