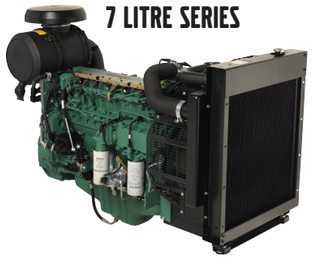
47712313 English 10-2019

# Power Generation

### 5 LITRE SERIES

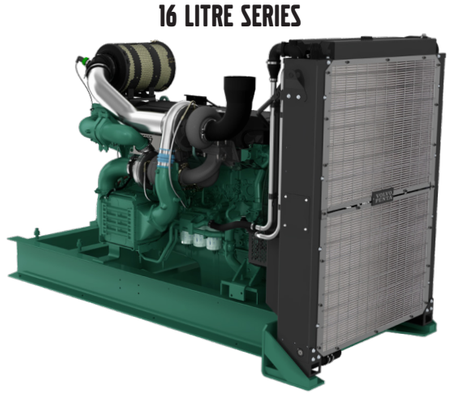
### 7 LITRE SERIES



### 8 LITRE SERIES

### 13 LITRE SERIES

### 16 LITRE SERIES

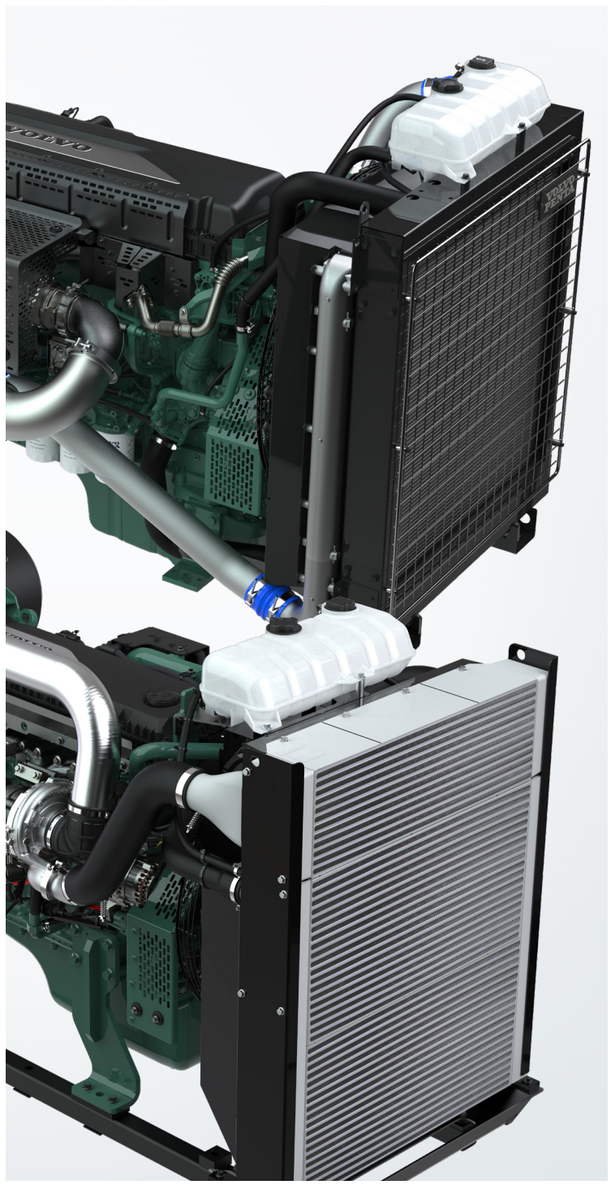


# ENGINE RANGE

Industrial engines

VOLVO PENTA

www.volvopenta.com



VOLVO PENTA

# Off-road and stationary

### 5 LITRE SERIES

### 8 LITRE SERIES

### 11 LITRE SERIES

### 13 LITRE SERIES

### 16 LITRE SERIES

# Power Generation Engines

## Stage II / Tier 2*

| | 50 Hz/1500 rpm | | | | | | 60 Hz/1800 rpm | | | | | | GENERATOR EFF. (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PRIME POWER | | | STANDBY | | | PRIME POWER | | | STANDBY | | | |
| Engine | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | |
| TAD530GE | 75 | 68 | 85 | 83 | 76 | 95 | 76 | 69 | 86 | 85 | 77 | 97 | 91% |
| TAD531GE | 88 | 81 | 101 | 97 | 89 | 112 | 91 | 84 | 105 | 100 | 92 | 115 | 92% |
| TAD532GE | 113 | 104 | 130 | 125 | 115 | 144 | 114 | 105 | 131 | 126 | 116 | 145 | 92% |
| TAD731GE | 134 | 123 | 154 | 148 | 136 | 170 | 139 | 128 | 160 | 153 | 141 | 176 | 92% |
| TAD732GE | 159 | 146 | 183 | 176 | 162 | 202 | 173 | 159 | 199 | 192 | 177 | 221 | 92% |
| TAD733GE | 176 | 164 | 205 | 194 | 180 | 226 | 192 | 179 | 223 | 213 | 198 | 248 | 93% |
| TAD734GE | 219 | 204 | 255 | 241 | 224 | 280 | 223 | 207 | 259 | 247 | 230 | 287 | 93% |
| TAD1341GE-B | 275 | 255 | 319 | 302 | 281 | 351 | 294 | 273 | 342 | 324 | 301 | 377 | 93% |
| TAD1342GE-B | 303 | 282 | 352 | 333 | 310 | 387 | 345 | 321 | 401 | 377 | 351 | 438 | 93% |
| TAD1343GE-B | 325 | 302 | 378 | 356 | 331 | 414 | 353 | 328 | 410 | 388 | 361 | 451 | 93% |
| TAD1344GE-B | 354 | 329 | 411 | 389 | 362 | 452 | 392 | 364 | 455 | 431 | 401 | 501 | 93% |
| TAD1345GE-B | 388 | 365 | 456 | 431 | 405 | 506 | 392 | 368 | 460 | 431 | 405 | 506 | 94% |
| TAD1640GE-B | 392 | 368 | 460 | 431 | 405 | 506 | 430 | 404 | 505 | 479 | 450 | 563 | 94% |
| TAD1641GE-B | 430 | 404 | 505 | 473 | 445 | 556 | 485 | 456 | 570 | 546 | 513 | 642 | 94% |
| TAD1642GE-B | 503 | 473 | 591 | 554 | 521 | 651 | 532 | 500 | 625 | 585 | 550 | 687 | 94% |
| TWD1643GE | 536 | 504 | 630 | 596 | 560 | 700 | 585 | 550 | 687 | 644 | 605 | 757 | 94% |
| TWD1644GE | 555 | 521 | 652 | 610 | 573 | 717 | 582 | 547 | 684 | 640 | 602 | 752 | 94% |
| TWD1645GE | 595 | 560 | 700 | 655 | 616 | 770 | 619 | 582 | 727 | 681 | 640 | 800 | 94% |

## Stage IIIA / Tier 3*

| | 50 Hz/1500 rpm | | | | | | 60 Hz/1800 rpm | | | | | | GENERATOR EFF. (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | PRIME POWER | | | STANDBY | | | PRIME POWER | | | STANDBY | | | |
| Engine | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | |
| TAD550GE | 76 | 69 | 86 | 84 | 76 | 96 | 85 | 77 | 97 | 94 | 86 | 107 | 91% |
| TAD551GE | 89 | 82 | 102 | 98 | 90 | 113 | 100 | 92 | 115 | 110 | 101 | 127 | 92% |
| TAD750GE | 113 | 104 | 130 | 127 | 117 | 146 | 125 | 115 | 144 | 141 | 130 | 162 | 92% |
| TAD751GE | 132 | 121 | 152 | 146 | 134 | 168 | 148 | 136 | 170 | 164 | 151 | 189 | 92% |
| TAD752GE | 158 | 145 | 182 | 174 | 160 | 200 | 177 | 163 | 204 | 196 | 180 | 225 | 92% |
| TAD753GE | 175 | 163 | 203 | 194 | 180 | 226 | 197 | 183 | 229 | 218 | 203 | 253 | 93% |
| TAD754GE | 219 | 204 | 255 | 242 | 225 | 281 | 222 | 206 | 258 | 245 | 228 | 285 | 93% |
| TAD1350GE | | | | | | | 245 | 227 | 284 | 269 | 250 | 313 | 93% |
| TAD1351GE | 279 | 259 | 324 | 306 | 285 | 356 | 294 | 273 | 341 | 323 | 300 | 375 | 93% |
| TAD1352GE | 314 | 292 | 365 | 345 | 321 | 401 | 344 | 320 | 400 | 376 | 350 | 437 | 93% |
| TAD1353GE | | | | | | | 391 | 364 | 454 | 430 | 400 | 500 | 93% |
| TAD1354GE | 328 | 305 | 381 | 361 | 336 | 420 | 344 | 320 | 400 | 376 | 350 | 437 | 93% |
| TAD1355GE | 355 | 334 | 417 | 390 | 367 | 458 | 344 | 323 | 404 | 376 | 353 | 442 | 94% |
| TAD1650GE | 393 | 370 | 462 | 433 | 407 | 508 | 439 | 413 | 516 | 483 | 454 | 568 | 94% |
| TAD1651GE | 430 | 404 | 505 | 473 | 445 | 556 | 494 | 464 | 580 | 546 | 513 | 641 | 94% |
| TWD1652GE | 505 | 480 | 600 | 557 | 529 | 661 | | | | | | | 95% |
| TWD1653GE | 547 | 520 | 650 | 604 | 574 | 717 | | | | | | | 95% |

## Tier 4f*

| | 50 Hz/1500 rpm | | | | | | | | | 60 Hz/1800 rpm | | | | | | | | | GENERATOR EFF. (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CONTINUOUS POWER | | | PRIME POWER | | | STANDBY | | | CONTINUOUS POWER | | | PRIME POWER | | | STANDBY | | | |
| Engine | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | |
| TWD1672GE | | | | | | | | | | | | | 532 | 508 | 635 | 585 | 559 | 698 | 95.5% |
| TWD1673GE | | | | | | | | | | | | | 595 | 570 | 713 | 655 | 625 | 781 | 95.5% |
| TWD1683GE | 428 | 402 | 502 | 570 | 536 | 670 | 627 | 589 | 737 | 447 | 420 | 525 | 595 | 560 | 700 | 655 | 616 | 770 | 94% |

## Stage V*

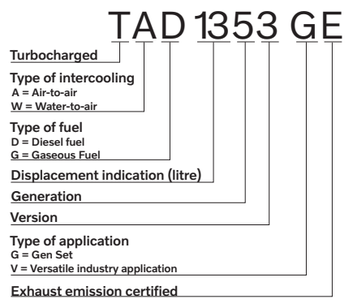
| | 50 Hz/1500 rpm | | | | | | | | | 60 Hz/1800 rpm | | | | | | | | | GENERATOR EFF. (%) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CONTINUOUS POWER | | | PRIME POWER | | | STANDBY | | | CONTINUOUS POWER | | | PRIME POWER | | | STANDBY | | | |
| Engine | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | kWm | kWe | kVA | |
| TAD880GE | 99 | 92 | 115 | 132 | 123 | 153 | 145 | 135 | 169 | 113 | 105 | 132 | 151 | 140 | 175 | 166 | 154 | 193 | 93% |
| TAD881GE | 130 | 120 | 151 | 173 | 161 | 201 | 190 | 177 | 221 | 149 | 138 | 173 | 198 | 184 | 230 | 218 | 203 | 253 | 93% |
| TAD882GE | 162 | 151 | 189 | 216 | 201 | 252 | 238 | 221 | 277 | 164 | 152 | 190 | 218 | 203 | 254 | 240 | 223 | 279 | 93% |
| TAD1380GE | 195 | 181 | 227 | 260 | 242 | 302 | 286 | 266 | 332 | 205 | 191 | 239 | 274 | 254 | 318 | 301 | 280 | 350 | 93% |
| TAD1381GE | 227 | 211 | 264 | 303 | 282 | 352 | 333 | 310 | 387 | 237 | 220 | 275 | 315 | 293 | 367 | 347 | 323 | 403 | 93% |
| TAD1382GE | 258 | 240 | 300 | 345 | 320 | 401 | 379 | 352 | 441 | 258 | 240 | 300 | 345 | 320 | 401 | 379 | 352 | 441 | 93% |
| TWD1683GE | 428 | 402 | 502 | 570 | 536 | 670 | 627 | 589 | 737 | 447 | 420 | 525 | 595 | 560 | 700 | 655 | 616 | 770 | 94% |

## Stage II / Tier 2*

| | 400 Hz/2000 rpm | | | | | | GENERATOR EFF. (%) |
|---|---|---|---|---|---|---|---|
| | PRIME POWER | | | STANDBY | | | |
| Engine | kWm | kWe | kVA | kWm | kWe | kVA | |
| TAD733GE | 171 | 157 | 197 | 192 | 177 | 221 | 92% |

*indication of emission standard.

Net engine performance acc. to ISO3046, BS5514, DIN6271
and in general SAEJ1349 net power
**kWm** = kiloWatt mechanical, net with fan
**kWe** = kiloWatt electrical = kWm × gen. eff.
**kVA** = kiloVoltAmpere calculations based on a 0.8 power factor = kWe / 0.8




# Industrial Engines for Off-Road applications

## Stage II / Tier 2*

| | MAXIMUM POWER | | | PEAK TORQUE | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Engine | kW | Hp | rpm | Nm | rpm | Displ. Litres | Length mm | Width mm | Height mm | Dry weight kg |
| TAD540VE | 105 | 143 | 2200 | 710 | 1400 | 5.1 | 968 | 921 | 982 | 511 |
| TAD541VE | 129 | 175 | 2200 | 810 | 1400 | 5.1 | 968 | 921 | 982 | 511 |
| TAD542VE | 160 | 218 | 2200 | 910 | 1450 | 5.1 | 968 | 921 | 982 | 511 |
| TAD840VE | 160 | 218 | 2200 | 1060 | 1350 | 7.7 | 1200 | 909 | 982 | 667 |
| TAD841VE | 185 | 252 | 2200 | 1160 | 1350 | 7.7 | 1206 | 909 | 982 | 667 |
| TAD842VE | 210 | 286 | 2200 | 1237 | 1350 | 7.7 | 1206 | 909 | 982 | 667 |
| TAD843VE | 235 | 320 | 2200 | 1310 | 1450 | 7.7 | 1206 | 909 | 982 | 667 |
| TAD1140VE | 235 | 320 | 2100 | 1581 | 1260 | 10.8 | 1309 | 913 | 1207 | 1036 |
| TAD1141VE | 265 | 360 | 2100 | 1785 | 1260 | 10.8 | 1309 | 913 | 1207 | 1036 |
| TAD1142VE | 285 | 388 | 1700 | 1938 | 1260 | 10.8 | 1309 | 913 | 1207 | 1036 |
| TAD1340VE | 256 | 348 | 2100 | 1790 | 1260 | 12.8 | 1373 | 870 | 1207 | 1267 |
| TAD1341VE | 275 | 374 | 2100 | 1905 | 1260 | 12.8 | 1373 | 870 | 1207 | 1267 |
| TAD1342VE | 310 | 422 | 2100 | 2000 | 1260 | 12.8 | 1373 | 870 | 1207 | 1267 |
| TAD1343VE | 332 | 452 | 2100 | 2119 | 1260 | 12.8 | 1373 | 870 | 1207 | 1267 |
| TAD1344VE | 352 | 479 | 2100 | 2248 | 1260 | 12.8 | 1373 | 870 | 1207 | 1267 |
| TAD1345VE | 394 | 536 | 2100 | 2325 | 1260 | 12.8 | 1373 | 870 | 1207 | 1267 |
| TAD1640VE-B | 405 | 551 | 1900 | 2760 | 1200 | 16.1 | 1580 | 899 | 1311 | 1359 |
| TAD1641VE-B | 450 | 612 | 1800 | 2910 | 1200 | 16.1 | 1580 | 899 | 1311 | 1359 |
| TAD1642VE-B | 515 | 700 | 1800 | 3220 | 1200 | 16.1 | 1580 | 899 | 1311 | 1359 |
| TAD1643VE-B | 565 | 768 | 1900 | 3260 | 1260 | 16.1 | 1580 | 899 | 1311 | 1437 |

## Stage IIIA / Tier 3*

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| TAD550VE | 105 | 143 | 2200 | 710 | 1400 | 5.1 | 968 | 921 | 982 | 511 |
| TAD551VE | 129 | 175 | 2200 | 810 | 1400 | 5.1 | 968 | 921 | 982 | 511 |
| TAD552VE | 160 | 218 | 2200 | 910 | 1450 | 5.1 | 968 | 921 | 982 | 511 |
| TAD850VE | 160 | 218 | 2200 | 1060 | 1350 | 7.7 | 1206 | 909 | 982 | 667 |
| TAD851VE | 185 | 252 | 2200 | 1160 | 1350 | 7.7 | 1206 | 909 | 982 | 667 |
| TAD852VE | 210 | 286 | 2200 | 1237 | 1350 | 7.7 | 1206 | 909 | 982 | 667 |
| TAD853VE | 235 | 320 | 2200 | 1310 | 1450 | 7.7 | 1206 | 830 | 982 | 667 |
| TAD1150VE | 235 | 320 | 2100 | 1581 | 1260 | 10.8 | 1309 | 913 | 1227 | 1041 |
| TAD1151VE | 265 | 360 | 2100 | 1785 | 1260 | 10.8 | 1309 | 913 | 1227 | 1041 |
| TAD1152VE | 285 | 388 | 1700 | 1938 | 1260 | 10.8 | 1309 | 913 | 1227 | 1041 |
| TAD1350VE | 256 | 348 | 1900 | 1780 | 1260 | 12.8 | 1373 | 870 | 1207 | 1267 |
| TAD1351VE | 285 | 388 | 1900 | 1965 | 1200 | 12.8 | 1400 | 876 | 1200 | 1267 |
| TAD1352VE | 315 | 428 | 1900 | 2175 | 1200 | 12.8 | 1400 | 876 | 1200 | 1267 |
| TAD1353VE | 345 | 470 | 1900 | 2380 | 1200 | 12.8 | 1400 | 876 | 1200 | 1267 |
| TAD1650VE-B | 405 | 551 | 1900 | 2757 | 1260 | 16.1 | 1490 | 894 | 1351 | 1322 |
| TAD1651VE | 450 | 612 | 1900 | 2897 | 1260 | 16.1 | 1490 | 894 | 1351 | 1322 |

## Tier 4f*

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| TAD570VE | 105 | 143 | 2300 | 710 | 1200 | 5.1 | 946 | 870 | 992 | 556 |
| TAD571VE | 129 | 175 | 2300 | 810 | 1200 | 5.1 | 946 | 870 | 992 | 556 |
| TAD572VE | 160 | 218 | 2300 | 910 | 1450 | 5.1 | 946 | 870 | 992 | 556 |
| TAD870VE | 160 | 218 | 2200 | 1060 | 1200 | 7.7 | 1206 | 875 | 982 | 710 |
| TAD871VE | 185 | 252 | 2200 | 1160 | 1200 | 7.7 | 1206 | 875 | 982 | 710 |
| TAD872VE | 210 | 286 | 2200 | 1235 | 1350 | 7.7 | 1206 | 875 | 982 | 710 |
| TAD873VE | 235 | 320 | 2200 | 1310 | 1450 | 7.7 | 1206 | 875 | 982 | 710 |
| TAD1170VE | 235 | 320 | 2100 | 1581 | 1260 | 10.8 | 1309 | 913 | 1227 | 1041 |
| TAD1171VE | 265 | 360 | 2100 | 1785 | 1260 | 10.8 | 1309 | 913 | 1227 | 1041 |
| TAD1172VE | 285 | 388 | 1700 | 1938 | 1250 | 10.8 | 1309 | 913 | 1227 | 1041 |
| TAD1371VE | 285 | 388 | 1900 | 1965 | 1200 | 12.8 | 1400 | 876 | 1200 | 1267 |
| TAD1372VE | 315 | 428 | 1900 | 2175 | 1200 | 12.8 | 1400 | 876 | 1200 | 1267 |
| TAD1373VE | 345 | 469 | 1900 | 2380 | 1200 | 12.8 | 1400 | 876 | 1200 | 1267 |
| TAD1374VE | 375 | 510 | 1900 | 2595 | 1200 | 12.8 | 1400 | 876 | 1200 | 1267 |
| TAD1375VE | 405 | 551 | 1900 | 2650 | 1200 | 12.8 | 1400 | 876 | 1200 | 1267 |
| TAD1670VE | 405 | 551 | 1900 | 2750 | 1260 | 16.1 | 1490 | 894 | 1351 | 1322 |
| TAD1671VE | 450 | 612 | 1900 | 2900 | 1260 | 16.1 | 1490 | 894 | 1351 | 1322 |
| TAD1672VE | 515 | 700 | 1800 | 3200 | 1260 | 16.1 | 1490 | 894 | 1351 | 1322 |

## Stage V*

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| TAD580VE | 105 | 143 | 2300 | 700 | 1300 | 5.1 | 968 | 809 | 992 | 547 |
| TAD581VE | 129 | 175 | 2300 | 800 | 1300 | 5.1 | 968 | 809 | 992 | 547 |
| TAD582VE | 160 | 218 | 2300 | 900 | 1300 | 5.1 | 968 | 809 | 992 | 547 |
| TAD583VE | 175 | 238 | 2300 | 950 | 1300 | 5.1 | 968 | 809 | 992 | 547 |
| TAD880VE | 160 | 218 | 2200 | 1050 | 1400 | 7.7 | 1207 | 889 | 1006 | 703 |
| TAD881VE | 185 | 252 | 2200 | 1150 | 1400 | 7.7 | 1207 | 889 | 1006 | 703 |
| TAD882VE | 210 | 286 | 2200 | 1225 | 1400 | 7.7 | 1207 | 889 | 1006 | 703 |
| TAD883VE | 235 | 320 | 2200 | 1300 | 1400 | 7.7 | 1207 | 889 | 1006 | 703 |
| TAD884VE | 250 | 340 | 2200 | 1330 | 1400 | 7.7 | 1207 | 889 | 1006 | 703 |
| TAD1180VE | 235 | 320 | 2100 | 1580 | 1400 | 10.8 | 1400 | 921 | 1227 | 1057 |
| TAD1181VE | 265 | 360 | 2100 | 1785 | 1400 | 10.8 | 1400 | 921 | 1227 | 1057 |
| TAD1182VE | 285 | 388 | 1800 | 1930 | 1400 | 10.8 | 1400 | 921 | 1227 | 1057 |
| TAD1183VE | 315 | 428 | 1700 | 1930 | 1400 | 10.8 | 1400 | 921 | 1227 | 1057 |
| TAD1381VE | 285 | 388 | 1900 | 1925 | 1200 | 12.8 | 1251 | 923 | 1200 | 1215 |
| TAD1382VE | 315 | 428 | 1900 | 2175 | 1200 | 12.8 | 1251 | 923 | 1200 | 1215 |
| TAD1383VE | 345 | 469 | 1900 | 2380 | 1200 | 12.8 | 1251 | 923 | 1200 | 1215 |
| TAD1384VE | 375 | 510 | 1900 | 2540 | 1200 | 12.8 | 1251 | 923 | 1200 | 1215 |
| TAD1385VE | 405 | 551 | 1700 | 2650 | 1200 | 12.8 | 1251 | 923 | 1200 | 1215 |
| TWD1683VE | 585 | 796 | 1900 | 3650 | 1200 | 16.1 | 1676 | 1050 | 1362 | 1658 |