

## Power Generation

8 LITRE SERIES



13 LITRE SERIES



16 LITRE SERIES



17 LITRE SERIES



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Industrial engines

## ENGINE RANGE



VOLVO PENTA

## Off-road and stationary

5 LITRE SERIES



8 LITRE SERIES



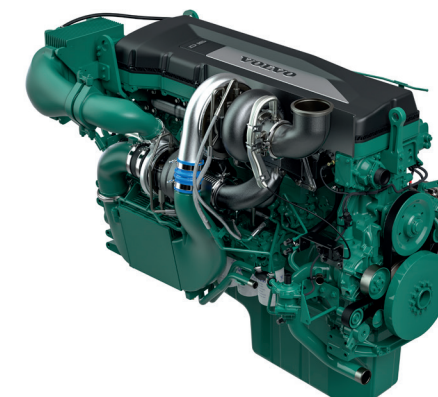
11 LITRE SERIES



13 LITRE SERIES



16 LITRE SERIES



Power Generation Engines

Stage II / Tier 2\*

| Engine      | 50 Hz/1500 rpm   |     |     |             |     |     |         |     |     | 60 Hz/1800 rpm   |     |     |             |     |     |         |     |     | GENERATOR EFF. (%) |
|-------------|------------------|-----|-----|-------------|-----|-----|---------|-----|-----|------------------|-----|-----|-------------|-----|-----|---------|-----|-----|--------------------|
|             | CONTINUOUS POWER |     |     | PRIME POWER |     |     | STANDBY |     |     | CONTINUOUS POWER |     |     | PRIME POWER |     |     | STANDBY |     |     |                    |
|             | kWm              | kWe | kVA | kWm         | kWe | kVA | kWm     | kWe | kVA | kWm              | kWe | kVA | kWm         | kWe | kVA | kWm     | kWe | kVA |                    |
| TAD840GE-B  | 132              | 122 | 152 | 176         | 162 | 203 | 194     | 178 | 223 | 160              | 147 | 184 | 194         | 178 | 223 | 213     | 196 | 245 | 92%                |
| TAD841GE    | 165              | 152 | 190 | 220         | 202 | 253 | 242     | 223 | 278 | 169              | 156 | 194 | 225         | 207 | 259 | 248     | 228 | 285 | 92%                |
| TAD842GE    | 196              | 182 | 228 | 261         | 243 | 303 | 287     | 267 | 334 | 196              | 182 | 227 | 261         | 243 | 303 | 287     | 267 | 334 | 93%                |
| TAD843GE    | 210              | 195 | 245 | 280         | 260 | 326 | 308     | 286 | 359 | 205              | 191 | 239 | 274         | 254 | 318 | 301     | 280 | 350 | 93%                |
| TAD1341GE-B | 203              | 189 | 236 | 271         | 252 | 315 | 298     | 277 | 346 | 230              | 214 | 267 | 287         | 267 | 334 | 317     | 295 | 369 | 93%                |
| TAD1342GE-B | 227              | 212 | 264 | 303         | 282 | 352 | 333     | 310 | 387 | 259              | 241 | 301 | 345         | 321 | 401 | 377     | 351 | 438 | 93%                |
| TAD1343GE-B | 244              | 227 | 384 | 325         | 302 | 378 | 356     | 331 | 414 | 265              | 246 | 308 | 353         | 328 | 410 | 388     | 361 | 451 | 93%                |
| TAD1344GE-B | 266              | 247 | 308 | 354         | 329 | 411 | 389     | 362 | 452 | 294              | 273 | 341 | 392         | 364 | 455 | 431     | 401 | 501 | 94%                |
| TAD1345GE-B | 291              | 274 | 342 | 388         | 365 | 456 | 431     | 405 | 506 | 294              | 276 | 345 | 392         | 368 | 460 | 431     | 405 | 506 | 94%                |
| TAD1346GE   | 320              | 301 | 377 | 427         | 402 | 502 | 470     | 442 | 552 | 327              | 307 | 384 | 436         | 409 | 512 | 479     | 450 | 563 | 94%                |
| TAD1641GE-B | 323              | 303 | 379 | 430         | 404 | 505 | 473     | 445 | 556 | 364              | 342 | 428 | 485         | 456 | 570 | 546     | 513 | 642 | 94%                |
| TAD1642GE-B | 377              | 355 | 443 | 503         | 473 | 591 | 554     | 521 | 651 | 399              | 375 | 469 | 532         | 500 | 625 | 585     | 550 | 687 | 94%                |
| TWD1644GE   | 416              | 391 | 489 | 555         | 521 | 652 | 610     | 573 | 717 | 437              | 410 | 513 | 582         | 547 | 684 | 640     | 602 | 752 | 94%                |
| TWD1645GE   | 446              | 420 | 525 | 595         | 560 | 700 | 655     | 616 | 770 | 464              | 437 | 545 | 619         | 582 | 727 | 681     | 640 | 800 | 94%                |
| TWD1744GE   | 532              | 500 | 625 | 645         | 606 | 758 | 709     | 666 | 833 | 563              | 529 | 661 | 682         | 641 | 801 | 750     | 705 | 881 | 94%                |

Stage IIIA / Tier 3\*

| Engine    | CONTINUOUS POWER |     |     | PRIME POWER |     |     | STANDBY |     |     | CONTINUOUS POWER |     |     | PRIME POWER |     |     | STANDBY |     |     |     |
|-----------|------------------|-----|-----|-------------|-----|-----|---------|-----|-----|------------------|-----|-----|-------------|-----|-----|---------|-----|-----|-----|
|           | kWm              | kWe | kVA | kWm         | kWe | kVA | kWm     | kWe | kVA | kWm              | kWe | kVA | kWm         | kWe | kVA | kWm     | kWe | kVA |     |
| TAD851GE  | 165              | 152 | 190 | 220         | 202 | 253 | 242     | 223 | 278 | 169              | 156 | 194 | 225         | 207 | 259 | 248     | 228 | 285 | 92% |
| TAD852GE  | 186              | 173 | 216 | 248         | 231 | 289 | 273     | 254 | 317 | 185              | 172 | 216 | 247         | 230 | 287 | 272     | 253 | 316 | 93% |
| TAD853GE  | 186              | 175 | 219 | 248         | 233 | 291 | 273     | 257 | 321 | 200              | 188 | 235 | 266         | 250 | 313 | 293     | 275 | 344 | 94% |
| TAD1350GE |                  |     |     |             |     |     |         |     |     | 184              | 170 | 213 | 245         | 227 | 284 | 269     | 250 | 313 | 93% |
| TAD1351GE | 209              | 194 | 243 | 279         | 259 | 324 | 306     | 285 | 356 | 221              | 205 | 256 | 294         | 273 | 341 | 323     | 300 | 375 | 93% |
| TAD1352GE | 236              | 219 | 274 | 314         | 292 | 365 | 345     | 321 | 401 | 258              | 240 | 300 | 344         | 320 | 400 | 376     | 350 | 437 | 93% |
| TAD1353GE |                  |     |     |             |     |     |         |     |     | 293              | 273 | 341 | 391         | 364 | 454 | 430     | 400 | 500 | 93% |
| TAD1354GE | 246              | 229 | 286 | 328         | 305 | 381 | 361     | 336 | 420 | 258              | 240 | 300 | 344         | 320 | 400 | 376     | 350 | 437 | 93% |
| TAD1355GE | 266              | 251 | 313 | 355         | 334 | 417 | 390     | 367 | 458 | 258              | 242 | 303 | 344         | 323 | 404 | 376     | 353 | 442 | 94% |
| TAD1650GE | 295              | 278 | 347 | 393         | 370 | 462 | 433     | 407 | 508 | 329              | 310 | 387 | 439         | 413 | 516 | 483     | 454 | 568 | 94% |
| TAD1651GE | 323              | 303 | 379 | 430         | 404 | 505 | 473     | 445 | 556 | 371              | 348 | 435 | 494         | 464 | 580 | 546     | 513 | 641 | 94% |
| TWD1652GE | 379              | 360 | 450 | 505         | 480 | 600 | 557     | 529 | 661 |                  |     |     |             |     |     |         |     |     | 95% |
| TWD1653GE | 410              | 390 | 488 | 547         | 520 | 650 | 604     | 574 | 717 |                  |     |     |             |     |     |         |     |     | 95% |

Tier 4f\*

| Engine    | CONTINUOUS POWER |     |     | PRIME POWER |     |     | STANDBY |     |     | CONTINUOUS POWER |     |     | PRIME POWER |     |     | STANDBY |     |     |     |
|-----------|------------------|-----|-----|-------------|-----|-----|---------|-----|-----|------------------|-----|-----|-------------|-----|-----|---------|-----|-----|-----|
|           | kWm              | kWe | kVA | kWm         | kWe | kVA | kWm     | kWe | kVA | kWm              | kWe | kVA | kWm         | kWe | kVA | kWm     | kWe | kVA |     |
| TWD1682GE |                  |     |     |             |     |     |         |     |     | 541              | 508 | 635 | 595         | 560 | 700 |         |     |     | 94% |
| TWD1683GE | 428              | 402 | 502 | 570         | 536 | 670 | 627     | 589 | 737 | 447              | 420 | 525 | 595         | 560 | 700 | 655     | 616 | 770 | 94% |

Stage V\*

| Engine    | CONTINUOUS POWER |     |     | PRIME POWER |     |     | STANDBY |     |     | CONTINUOUS POWER |     |     | PRIME POWER |     |     | STANDBY |     |     |     |
|-----------|------------------|-----|-----|-------------|-----|-----|---------|-----|-----|------------------|-----|-----|-------------|-----|-----|---------|-----|-----|-----|
|           | kWm              | kWe | kVA | kWm         | kWe | kVA | kWm     | kWe | kVA | kWm              | kWe | kVA | kWm         | kWe | kVA | kWm     | kWe | kVA |     |
| TAD880GE  | 97               | 90  | 113 | 129         | 120 | 150 | 142     | 132 | 165 | 113              | 105 | 131 | 151         | 140 | 175 | 166     | 154 | 193 | 93% |
| TAD881GE  | 129              | 120 | 150 | 172         | 160 | 200 | 189     | 176 | 220 | 149              | 138 | 173 | 198         | 184 | 230 | 218     | 203 | 253 | 93% |
| TAD882GE  | 161              | 150 | 188 | 215         | 200 | 250 | 237     | 220 | 276 | 164              | 152 | 191 | 218         | 203 | 254 | 240     | 223 | 279 | 93% |
| TAD1380GE | 195              | 182 | 227 | 260         | 242 | 302 | 286     | 266 | 332 | 206              | 191 | 239 | 274         | 254 | 318 | 301     | 280 | 350 | 93% |
| TAD1381GE | 227              | 212 | 264 | 303         | 282 | 352 | 333     | 310 | 387 | 237              | 221 | 275 | 316         | 294 | 367 | 347     | 323 | 404 | 93% |
| TAD1382GE | 258              | 240 | 300 | 344         | 320 | 400 | 378     | 352 | 440 | 258              | 240 | 300 | 344         | 320 | 400 | 378     | 352 | 440 | 93% |
| TWD1683GE | 428              | 402 | 502 | 570         | 536 | 670 | 627     | 589 | 737 | 447              | 420 | 525 | 595         | 560 | 700 | 655     | 616 | 770 | 94% |

US EPA Stationary\*

| Engine**  | CONTINUOUS POWER |     |     | PRIME POWER |     |     | STANDBY |     |     | CONTINUOUS POWER |     |     | PRIME POWER |     |     | STANDBY |     |     |     |
|-----------|------------------|-----|-----|-------------|-----|-----|---------|-----|-----|------------------|-----|-----|-------------|-----|-----|---------|-----|-----|-----|
|           | kWm              | kWe | kVA | kWm         | kWe | kVA | kWm     | kWe | kVA | kWm              | kWe | kVA | kWm         | kWe | kVA | kWm     | kWe | kVA |     |
| TWG1781GE |                  |     |     |             |     |     |         |     |     |                  |     |     | 441         | 414 | 518 | 485     | 456 | 570 | 94% |

\* Indication of emission standard.

\*\* Fuel quality might effect power output.

Net engine performance acc. to ISO3046, BS5514, DIN6271 and in general SAEJ1349 net power

**kWm** = kiloWatt mechanical, net with fan  
**kWe** = kiloWatt electrical = kWm x 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\*

| Engine      | MAXIMUM POWER |     |      | PEAK TORQUE |      | Displ. Litres | Length mm | Width mm | Height mm | Dry weight kg |
|-------------|---------------|-----|------|-------------|------|---------------|-----------|----------|-----------|---------------|
|             | kW            | Hp  | rpm  | Nm          | rpm  |               |           |          |           |               |
| 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 | 1235        | 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-C | 405           | 551 | 1900 | 2760        | 1200 | 16.1          | 1580      | 899      | 1311      | 1359          |
| TAD1641VE-C | 450           | 612 | 1800 | 2910        | 1200 | 16.1          | 1580      | 899      | 1311      | 1359          |
| TAD1642VE-C | 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 |
| 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 | 469 | 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 | 1800 | 2897 | 1260 | 16.1 | 1490 | 894 | 1351 | 1322 |