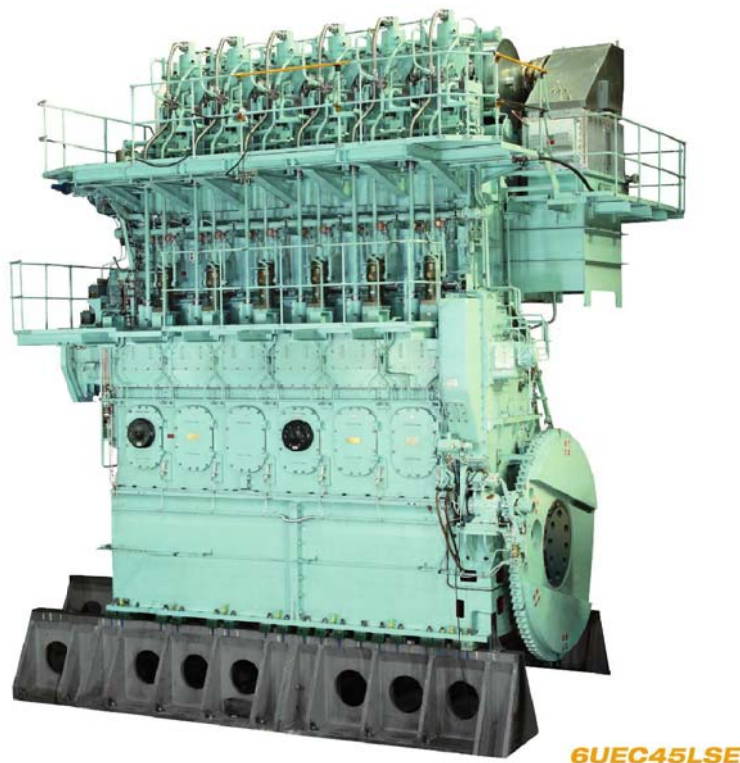


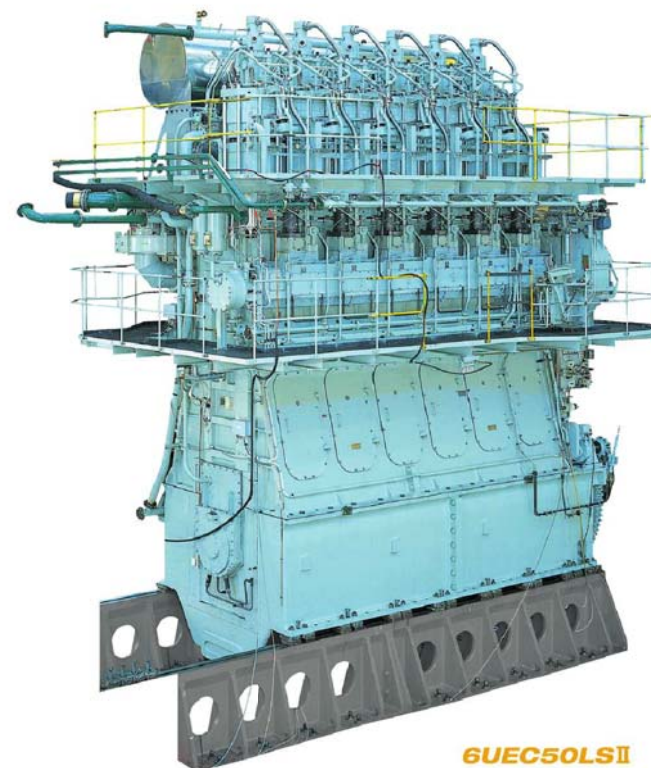
# AKASAKA DIESEL - MITSUBISHI UE DIESEL ENGINE

## UEC Type LSE



6UEC45LSE

## UEC Type LSII



6UEC50LSII

### 赤坂・三菱 UE ディーゼル機関出力表

#### AKASAKA DIESEL- MITSUBISHI UE DIESEL ENGINE

| Concept             | Benefit                                                    |
|---------------------|------------------------------------------------------------|
| ECOLOGY             | NOx Emission Reduction Smokeless Operation                 |
| ECONOMY             | Lower Fuel Consumption Lower maintenance Cost              |
| EXCELLENT CONDITION | Higher Reliability Early Detection of Disorder             |
| EASY CONTROL        | Stable Low Load Operation Better Starting and Crush Astern |

### Type LSE

| Engine speed(min <sup>-1</sup> ) |                          | 0 | 5,000 | 10,000 | 15,000 | Engine output(kW) |
|----------------------------------|--------------------------|---|-------|--------|--------|-------------------|
| 99~124                           | UEC50LSE<br>UEC50LSE-Eco |   | 5,375 |        | 14,000 |                   |
| 98~130                           | UEC45LSE<br>UEC45LSE-Eco |   | 3,750 | 9,960  |        |                   |
| 142~167                          | UEC35LSE<br>UEC35LSE-Eco |   | 2,950 | 6,960  |        |                   |
| 107~142                          | UEC33LSE<br>UEC33LSE-Eco |   | 2,125 | 5,640  |        |                   |

### Output map of AKASAKA DIESEL-MITSUBISHI UE DIESEL ENGINE

### Type LSII

| Engine speed(min <sup>-1</sup> ) |            | 0 | 5,000 | 10,000 | 15,000 | Engine output(kW) |
|----------------------------------|------------|---|-------|--------|--------|-------------------|
| 95~127                           | UEC50LS II |   | 4,325 | 11,560 |        |                   |
| 120~160                          | UEC43LS II |   | 3,150 | 8,400  |        |                   |
| 140~186                          | UEC37LS II |   | 2,325 | 6,180  |        |                   |
| 157~215                          | UEC33LS II |   | 1,655 | 4,530  |        |                   |



Type **LSE** 主要目表 Principal particulars

| UEC50LSE<br>B1/Eco-B1 | Rated Power | Specific Fuel Oil Consumption/kWh(Load 100%) |          | Eng. speed<br>min <sup>-1</sup> | Engine Output kW    |        |        |        |
|-----------------------|-------------|----------------------------------------------|----------|---------------------------------|---------------------|--------|--------|--------|
|                       |             | B1                                           | Eco-B1   |                                 | Number of Cylinders |        |        |        |
|                       |             | Standard                                     | Standard |                                 | 5                   | 6      | 7      | 8      |
| P1                    |             | 170.0                                        | 167.0    | 124                             | 8,750               | 10,500 | 12,250 | 14,000 |
| P2                    |             | 165.0                                        | 162.0    |                                 | 7,100               | 8,520  | 9,940  | 11,360 |
| P3                    |             | 170.0                                        | 167.0    | 99                              | 6,975               | 8,370  | 9,765  | 11,160 |
| P4                    |             | 165.0                                        | 162.0    |                                 | 5,675               | 6,810  | 7,945  | 9,080  |
| UEC50LSE<br>A1/Eco-A1 | Rated Power | Specific Fuel Oil Consumption/kWh(Load 100%) |          | Eng. speed<br>min <sup>-1</sup> | Engine Output kW    |        |        |        |
|                       |             | A1                                           | Eco-A1   |                                 | Number of Cylinders |        |        |        |
|                       |             | Standard                                     | Standard |                                 | 5                   | 6      | 7      | 8      |
| P1                    |             | 170.0                                        | 167.0    | 124                             | 8,300               | 9,960  | 11,620 | 13,280 |
| P2                    |             | 165.0                                        | 162.0    |                                 | 6,750               | 8,100  | 9,450  | 10,800 |
| P3                    |             | 170.0                                        | 167.0    | 99                              | 6,625               | 7,950  | 9,275  | 10,600 |
| P4                    |             | 165.0                                        | 162.0    |                                 | 5,375               | 6,450  | 7,525  | 8,600  |
| UEC50LSE<br>A2/Eco-A2 | Rated Power | Specific Fuel Oil Consumption/kWh(Load 100%) |          | Eng. speed<br>min <sup>-1</sup> | Engine Output kW    |        |        |        |
|                       |             | A2                                           | Eco-A2   |                                 | Number of Cylinders |        |        |        |
|                       |             | Standard                                     | Standard |                                 | 5                   | 6      | 7      | 8      |
| P1                    |             | 170.0                                        | 167.0    | 124                             | 8,300               | 9,960  | 11,620 | 13,280 |
| P2                    |             | 164.4                                        | 161.4    |                                 | 6,750               | 8,100  | 9,450  | 10,800 |
| P3                    |             | 170.0                                        | 167.0    | 105                             | 7,025               | 8,430  | 9,835  | 11,240 |
| P4                    |             | 164.4                                        | 161.4    |                                 | 5,725               | 6,870  | 8,015  | 9,160  |

| UEC45LSE<br>1/Eco-1   | Rated Power | Specific Fuel Oil Consumption/kWh(Load 100%) |          | Eng. speed<br>min <sup>-1</sup> | Engine Output kW    |       |        |        |
|-----------------------|-------------|----------------------------------------------|----------|---------------------------------|---------------------|-------|--------|--------|
|                       |             | 1                                            | Eco-1    |                                 | Number of Cylinders |       |        |        |
|                       |             | Standard                                     | Standard |                                 | 5                   | 6     | 7      | 8      |
| P1                    |             | 174.0                                        | 172.0    | 130                             | 6,225               | 7,470 | 8,715  | 9,960  |
| P2                    |             | 168.7                                        | 166.7    |                                 | 4,975               | 5,970 | 6,965  | 7,960  |
| P3                    |             | 174.0                                        | 172.0    | 98                              | 4,700               | 5,640 | 6,580  | 7,520  |
| P4                    |             | 168.7                                        | 166.7    |                                 | 3,750               | 4,500 | 5,250  | 6,000  |
| UEC45LSE<br>B2/Eco-B2 | Rated Power | Specific Fuel Oil Consumption/kWh(Load 100%) |          | Eng. speed<br>min <sup>-1</sup> | Engine Output kW    |       |        |        |
|                       |             | B2                                           | Eco-B2   |                                 | Number of Cylinders |       |        |        |
|                       |             | Standard                                     | Standard |                                 | 5                   | 6     | 7      | 8      |
| P1                    |             | 171.0                                        | 169.0    | 128                             | 6,900               | 8,280 | 9,660  | 11,040 |
| P2                    |             | 165.0                                        | 163.0    |                                 | 5,525               | 6,630 | 7,735  | 8,840  |
| P3                    |             | 171.0                                        | 169.0    | 108                             | 5,825               | 6,990 | 8,155  | 9,320  |
| P4                    |             | 164.9                                        | 163.0    |                                 | 4,650               | 5,580 | 6,510  | 7,440  |
| UEC45LSE<br>C1/Eco-C1 | Rated Power | Specific Fuel Oil Consumption/kWh(Load 100%) |          | Eng. speed<br>min <sup>-1</sup> | Engine Output kW    |       |        |        |
|                       |             | C1                                           | Eco-C1   |                                 | Number of Cylinders |       |        |        |
|                       |             | Standard                                     | Standard |                                 | 5                   | 6     | 7      | 8      |
| P1                    |             | 173.0                                        | 171.0    | 128                             | 7,200               | 8,640 | 10,080 | 11,520 |
| P2                    |             | 167.7                                        | 165.7    |                                 | 5,750               | 6,900 | 8,050  | 9,200  |
| P3                    |             | 173.0                                        | 171.0    | 96                              | 5,400               | 6,480 | 7,560  | 8,640  |
| P4                    |             | 167.7                                        | 165.7    |                                 | 4,325               | 5,190 | 6,055  | 6,920  |

| UEC35LSE<br>B2/Eco-B2 | Rated Power | Specific Fuel Oil Consumption/kWh(Load 100%) |          | Eng. speed<br>min <sup>-1</sup> | Engine Output kW    |       |       |       |
|-----------------------|-------------|----------------------------------------------|----------|---------------------------------|---------------------|-------|-------|-------|
|                       |             | B2                                           | Eco-B2   |                                 | Number of Cylinders |       |       |       |
|                       |             | Standard                                     | Standard |                                 | 5                   | 6     | 7     | 8     |
| P1                    |             | 176.0                                        | 167.0    | 167                             | 4,350               | 5,220 | 6,090 | 6,960 |
| P2                    |             | 172.0                                        | 161.0    |                                 | 3,475               | 4,170 | 4,865 | 5,560 |
| P3                    |             | 176.0                                        | 167.0    | 142                             | 3,700               | 4,440 | 5,180 | 5,920 |
| P4                    |             | 171.9                                        | 161.0    |                                 | 2,950               | 3,540 | 4,130 | 4,720 |

| UEC33LSE<br>C1/Eco-C1 | Rated Power | Specific Fuel Oil Consumption/kWh(Load 100%) |          | Eng. speed<br>min <sup>-1</sup> | Engine Output kW    |       |       |       |
|-----------------------|-------------|----------------------------------------------|----------|---------------------------------|---------------------|-------|-------|-------|
|                       |             | C1                                           | Eco-C1   |                                 | Number of Cylinders |       |       |       |
|                       |             | Standard                                     | Standard |                                 | 5                   | 6     | 7     | 8     |
| P1                    |             | 175.0                                        | 174.0    | 142                             | 3,525               | 4,230 | 4,935 | 5,640 |
| P2                    |             | 169.7                                        | 168.7    |                                 | 2,825               | 3,390 | 3,955 | 4,520 |
| P3                    |             | 174.9                                        | 173.9    | 107                             | 2,650               | 3,180 | 3,710 | 4,240 |
| P4                    |             | 169.7                                        | 168.7    |                                 | 2,125               | 2,550 | 2,975 | 3,400 |
| UEC33LSE<br>C2/Eco-C2 | Rated Power | Specific Fuel Oil Consumption/kWh(Load 100%) |          | Eng. speed<br>min <sup>-1</sup> | Engine Output kW    |       |       |       |
|                       |             | C2                                           | Eco-C2   |                                 | Number of Cylinders |       |       |       |
|                       |             | Standard                                     | Standard |                                 | 5                   | 6     | 7     | 8     |
| P1                    |             | 174.0                                        | 173.0    | 142                             | 3,525               | 4,230 | 4,935 | 5,640 |
| P2                    |             | 170.0                                        | 169.0    |                                 | 2,825               | 3,390 | 3,955 | 4,520 |
| P3                    |             | 174.0                                        | 173.0    | 121                             | 3,000               | 3,600 | 4,200 | 4,800 |
| P4                    |             | 170.0                                        | 169.0    |                                 | 2,400               | 2,880 | 3,360 | 3,840 |

## AKASAKA DIESEL - MITSUBISHI UE DIESEL ENGINE

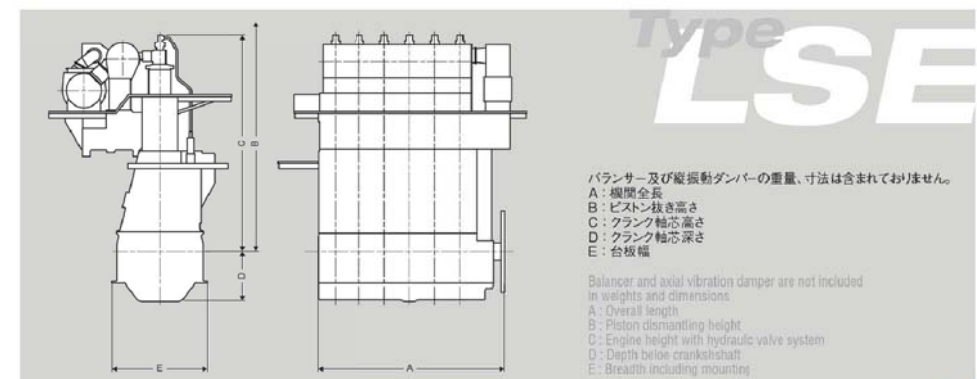
| UEC50LSE<br>B1/Eco-B1<br>A1/Eco-A1<br>A2/Eco-A2 | Bore<br>mm | Stroke<br>mm | Number of Cylinders | A<br>mm | B<br>mm | C<br>mm        | D<br>mm | E<br>mm | Weight kg |         |         |         |         |         |
|-------------------------------------------------|------------|--------------|---------------------|---------|---------|----------------|---------|---------|-----------|---------|---------|---------|---------|---------|
|                                                 |            |              |                     |         |         |                |         |         | B1        | Eco-B1  | A1      | Eco-A1  | A2      | Eco-A2  |
|                                                 |            |              |                     |         |         |                |         |         |           |         |         |         |         |         |
|                                                 | 500        | 2,050        | 5                   | 5,550   | 9,250   | 7,576<br>7,688 | 1,636   | 3,150   | 186,000   | 188,000 | 186,000 | 188,000 | 186,000 | 188,000 |
|                                                 |            |              | 6                   | 6,430   | 9,250   | 7,576<br>7,688 | 1,636   | 3,150   | 217,000   | 219,000 | 217,000 | 219,000 | 217,000 | 219,000 |
|                                                 |            |              | 7                   | 7,310   | 9,250   | 7,576<br>7,688 | 1,636   | 3,150   | 248,000   | 251,000 | 248,000 | 251,000 | 248,000 | 251,000 |
|                                                 |            |              | 8                   | 8,190   | 9,250   | 7,576<br>7,688 | 1,636   | 3,150   | 279,000   | 281,000 | 279,000 | 281,000 | 279,000 | 281,000 |

| UEC45LSE<br>1/Eco-1 | Bore<br>mm | Stroke<br>mm | Number of Cylinders | A<br>mm | B<br>mm | C<br>mm | D<br>mm | E<br>mm | Weight kg |         |
|---------------------|------------|--------------|---------------------|---------|---------|---------|---------|---------|-----------|---------|
|                     |            |              |                     |         |         |         |         |         | 1         | Eco-1   |
|                     |            |              |                     |         |         |         |         |         |           |         |
|                     | 450        | 1,840        | 5                   | 5,102   | 8,600   | 6,900   | 1,560   | 3,000   | 168,000   | 162,000 |
|                     |            |              | 6                   | 5,894   | 8,600   | 6,900   | 1,560   | 3,000   | 195,000   | 189,000 |
|                     |            |              | 7                   | 6,686   | 8,600   | 6,900   | 1,560   | 3,000   | 222,000   | 215,000 |
|                     |            |              | 8                   | 7,478   | 8,600   | 6,900   | 1,560   | 3,000   | 252,000   | 243,000 |

| UEC45LSE<br>B2/Eco-B2<br>C1/Eco-C1 | Bore<br>mm | Stroke<br>mm | Number of Cylinders | A<br>mm | B<br>mm | C<br>mm | D<br>mm | E<br>mm | Weight kg |         |         |         |
|------------------------------------|------------|--------------|---------------------|---------|---------|---------|---------|---------|-----------|---------|---------|---------|
|                                    |            |              |                     |         |         |         |         |         | B2        | Eco-B2  | C1      | Eco-C1  |
|                                    |            |              |                     |         |         |         |         |         |           |         |         |         |
|                                    | 450        | 1,930        | 5                   | 5,102   | 8,860   | 7,080   | 1,540   | 3,000   | 158,000   | 161,000 | 158,000 | 161,000 |
|                                    |            |              | 6                   | 5,894   | 8,860   | 7,080   | 1,540   | 3,000   | 183,000   | 187,000 | 183,000 | 187,000 |
|                                    |            |              | 7                   | 6,686   | 8,860   | 7,080   | 1,540   | 3,000   | 208,000   | 212,000 | 208,000 | 212,000 |
|                                    |            |              | 8                   | 7,478   | 8,860   | 7,080   | 1,540   | 3,000   | 236,000   | 240,000 | 236,000 | 240,000 |

| UEC35LSE<br>B2/Eco-B2 | Bore<br>mm | Stroke<br>mm | Number of Cylinders | A<br>mm | B<br>mm | C<br>mm | D<br>mm | E<br>mm | Weight kg |         |        |         |
|-----------------------|------------|--------------|---------------------|---------|---------|---------|---------|---------|-----------|---------|--------|---------|
|                       |            |              |                     |         |         |         |         |         | B1        | Eco-B1  | B2     | Eco-B2  |
|                       |            |              |                     |         |         |         |         |         |           |         |        |         |
|                       | 350        | 1,550        | 5                   | 4,393   | 6,725   | 5,575.5 | 1,326   | 2,264   | 69,000    | 70,000  | 69,000 | 70,000  |
|                       |            |              | 6                   | 5,010   | 6,725   | 5,575.5 | 1,326   | 2,264   | 80,000    | 82,000  | 80,000 | 82,000  |
|                       |            |              | 7                   | 5,622   | 6,725   | 5,575.5 | 1,326   | 2,264   | 90,000    | 92,000  | 90,000 | 92,000  |
|                       |            |              | 8                   | 6,234   | 6,725   | 5,575.5 | 1,326   | 2,264   | 98,000    | 100,000 | 98,000 | 100,000 |

| UEC33LSE<br>C1/Eco-C1<br>C2/Eco-C2 | Bore<br>mm | Stroke<br>mm | Number of Cylinders | A<br>mm | B<br>mm | C<br>mm | D<br>mm | E<br>mm | Weight kg |        |        |        |
|------------------------------------|------------|--------------|---------------------|---------|---------|---------|---------|---------|-----------|--------|--------|--------|
|                                    |            |              |                     |         |         |         |         |         | C1        | Eco-C1 | C2     | Eco-C2 |
|                                    |            |              |                     |         |         |         |         |         |           |        |        |        |
|                                    | 330        | 1,550        | 5                   | 4,393   | 6,725   | 5,575.5 | 1,326   | 2,264   | 68,000    | 69,000 | 68,000 | 69,000 |
|                                    |            |              | 6                   | 5,010   | 6,725   | 5,575.5 | 1,326   | 2,264   | 79,000    | 81,000 | 79,000 | 81,000 |
|                                    |            |              | 7                   | 5,622   | 6,725   | 5,575.5 | 1,326   | 2,264   | 89,000    | 91,000 | 89,000 | 91,000 |
|                                    |            |              | 8                   | 6,234   | 6,725   | 5,575.5 | 1,326   | 2,264   | 97,000    | 99,000 | 97,000 | 99,000 |



# Type LS II 主要目表 Principal particulars

# AKASAKA DIESEL - MITSUBISHI UE DIESEL ENGINE

| UEC50LS II | Rated Power | Specific Fuel Oil Consumption/kWh(Load 100%) | Eng. speed min <sup>-1</sup> | Engine Output kW    |       |        |        |
|------------|-------------|----------------------------------------------|------------------------------|---------------------|-------|--------|--------|
|            |             | LS II                                        |                              | Number of Cylinders |       |        |        |
|            |             | Standard                                     |                              | 5                   | 6     | 7      | 8      |
| P1         | 171.0       | 171.0                                        | 127                          | 7,225               | 8,670 | 10,115 | 11,560 |
|            |             |                                              |                              | 5,775               | 6,930 | 8,085  | 9,240  |
| P2         | 165.7       | 171.0                                        | 95                           | 5,400               | 6,480 | 7,560  | 8,640  |
| P3         | 171.0       | 165.7                                        |                              | 4,325               | 5,190 | 6,055  | 6,920  |

| UEC43LS II | Rated Power | Specific Fuel Oil Consumption/kWh(Load 100%) | Eng. speed min <sup>-1</sup> | Engine Output kW    |       |       |       |
|------------|-------------|----------------------------------------------|------------------------------|---------------------|-------|-------|-------|
|            |             | LS II                                        |                              | Number of Cylinders |       |       |       |
|            |             | Standard                                     |                              | 5                   | 6     | 7     | 8     |
| P1         | 177.0       | 177.0                                        | 160                          | 5,250               | 6,300 | 7,350 | 8,400 |
| P2         | 171.7       | 177.0                                        |                              | 4,200               | 5,040 | 5,880 | 6,720 |
| P3         | 177.0       | 171.7                                        | 120                          | 3,950               | 4,740 | 5,530 | 6,320 |
| P4         | 171.7       | 177.0                                        |                              | 3,150               | 3,780 | 4,410 | 5,040 |

| UEC37LS II | Rated Power | Specific Fuel Oil Consumption/kWh(Load 100%) | Eng. speed min <sup>-1</sup> | Engine Output kW    |       |       |       |
|------------|-------------|----------------------------------------------|------------------------------|---------------------|-------|-------|-------|
|            |             | LS II                                        |                              | Number of Cylinders |       |       |       |
|            |             | Standard                                     |                              | 5                   | 6     | 7     | 8     |
| P1         | 179.0       | 179.0                                        | 186                          | 3,860               | 4,635 | 5,405 | 6,180 |
| P2         | 173.7       | 179.0                                        |                              | 3,090               | 3,705 | 4,325 | 4,945 |
| P3         | 179.0       | 173.7                                        | 140                          | 2,905               | 3,490 | 4,070 | 4,650 |
| P4         | 173.7       | 179.0                                        |                              | 2,325               | 2,790 | 3,255 | 3,720 |

| UEC33LS II | Rated Power | Specific Fuel Oil Consumption/kWh(Load 100%) | Eng. speed min <sup>-1</sup> | Engine Output kW    |       |       |       |
|------------|-------------|----------------------------------------------|------------------------------|---------------------|-------|-------|-------|
|            |             | LS II                                        |                              | Number of Cylinders |       |       |       |
|            |             | Standard                                     |                              | 5                   | 6     | 7     | 8     |
| P1         | 179.0       | 179.0                                        | 215                          | 2,830               | 3,400 | 3,965 | 4,530 |
| P2         | 173.7       | 179.0                                        |                              | 2,265               | 2,720 | 3,170 | 3,625 |
| P3         | 179.0       | 173.7                                        | 157                          | 2,070               | 2,480 | 2,895 | 3,310 |
| P4         | 173.7       | 179.0                                        |                              | 1,655               | 1,985 | 2,315 | 2,645 |

| UEC50LS II | Bore mm | Stroke mm | Number of Cylinders | A mm  | B mm  | C mm  | D mm  | E mm  | Weight kg |
|------------|---------|-----------|---------------------|-------|-------|-------|-------|-------|-----------|
|            | 500     | 1,950     | 5                   | 5,481 | 8,900 | 7,302 | 1,559 | 3,100 | 193,000   |
|            |         |           | 6                   | 6,361 | 8,900 | 7,302 | 1,559 | 3,100 | 225,000   |
|            |         |           | 7                   | 7,241 | 8,900 | 7,302 | 1,559 | 3,100 | 256,000   |
|            |         |           | 8                   | 8,121 | 8,900 | 7,302 | 1,559 | 3,100 | 288,000   |

| UEC43LS II | Bore mm | Stroke mm | Number of Cylinders | A mm  | B mm  | C mm  | D mm  | E mm  | Weight kg |
|------------|---------|-----------|---------------------|-------|-------|-------|-------|-------|-----------|
|            | 430     | 1,500     | 5                   | 4,846 | 7,100 | 5,827 | 1,237 | 2,520 | 121,000   |
|            |         |           | 6                   | 5,602 | 7,100 | 5,827 | 1,237 | 2,520 | 140,000   |
|            |         |           | 7                   | 6,358 | 7,100 | 5,827 | 1,237 | 2,520 | 159,000   |
|            |         |           | 8                   | 7,114 | 7,100 | 5,827 | 1,237 | 2,520 | 182,000   |

| UEC37LS II | Bore mm | Stroke mm | Number of Cylinders | A mm  | B mm  | C mm  | D mm  | E mm  | Weight kg |
|------------|---------|-----------|---------------------|-------|-------|-------|-------|-------|-----------|
|            | 370     | 1,290     | 5                   | 4,243 | 6,170 | 5,062 | 1,120 | 2,255 | 83,000    |
|            |         |           | 6                   | 4,893 | 6,170 | 5,062 | 1,120 | 2,255 | 96,000    |
|            |         |           | 7                   | 5,543 | 6,170 | 5,062 | 1,120 | 2,255 | 110,000   |
|            |         |           | 8                   | 6,193 | 6,170 | 5,062 | 1,120 | 2,255 | 124,000   |

| UEC33LS II | Bore mm | Stroke mm | Number of Cylinders | A mm  | B mm  | C mm  | D mm | E mm  | Weight kg |
|------------|---------|-----------|---------------------|-------|-------|-------|------|-------|-----------|
|            | 330     | 1,050     | 5                   | 3,765 | 5,150 | 4,301 | 906  | 1,900 | 52,000    |
|            |         |           | 6                   | 4,345 | 5,150 | 4,301 | 906  | 1,900 | 60,000    |
|            |         |           | 7                   | 4,925 | 5,150 | 4,301 | 906  | 1,900 | 68,000    |
|            |         |           | 8                   | 5,505 | 5,150 | 4,301 | 906  | 1,900 | 78,000    |

