

| Motor<br>Version   | Voltage<br>LiHV [V]     | Propeller<br>Size | Throttle<br>Range | Amperage          | Power Input       |      | Thrust Output      |       |       | RPM                | Efficiency         |         |  |
|--|-------------------------|-------------------|-------------------|-------------------|-------------------|------|--------------------|-------|-------|--------------------|--------------------|---------|--|
|  |                         |                   |                   | [A]               | [W]               | [hp] | [g]                | [N]   | [lb]  | [rev/min]          | [g/W]              | [lb/hp] |  |
|  |                         |                   |                   | (Lower is Better) | (Lower is Better) |      | (Higher is Better) |       |       | (Higher is Better) | (Higher is Better) |         |  |
| KDE2315XF-965<br>(965Kv)<br><br>KDEXF-UAS35<br>S.R. Enabled  | 11.6V (3S)<br>13.1V MAX | 9" x 3.0          | 25.0%             | 0.6               | 7                 | 0.01 | 100                | 0.98  | 0.22  | 3060               | 14.29              | 23.49   |  |
|  |                         |                   | 37.5%             | 1.1               | 14                | 0.02 | 160                | 1.57  | 0.35  | 4620               | 11.43              | 18.79   |  |
|  |                         |                   | 50.0%             | 2.1               | 28                | 0.04 | 270                | 2.65  | 0.60  | 6000               | 9.64               | 15.85   |  |
|  |                         |                   | 62.5%             | 3.5               | 45                | 0.06 | 390                | 3.82  | 0.86  | 7260               | 8.67               | 14.25   |  |
|  |                         |                   | 75.0%             | 5.4               | 70                | 0.09 | 520                | 5.10  | 1.15  | 8520               | 7.43               | 12.21   |  |
|  |                         |                   | 87.5%             | 8.2               | 107               | 0.14 | 700                | 6.86  | 1.54  | 9780               | 6.54               | 10.76   |  |
|  |                         |                   | 100.0%            | 11.0              | 144               | 0.19 | 850                | 8.34  | 1.87  | 10740              | 5.90               | 9.70    |  |
|  |                         | 9" x 4.5 (DJI)    | 25.0%             | 0.7               | 8                 | 0.01 | 120                | 1.18  | 0.26  | 2940               | 15.00              | 24.66   |  |
|  |                         |                   | 37.5%             | 1.7               | 21                | 0.03 | 220                | 2.16  | 0.49  | 4260               | 10.48              | 17.22   |  |
|  |                         |                   | 50.0%             | 3.4               | 44                | 0.06 | 370                | 3.63  | 0.82  | 5520               | 8.41               | 13.82   |  |
|  |                         |                   | 62.5%             | 5.6               | 72                | 0.10 | 530                | 5.20  | 1.17  | 6680               | 7.36               | 12.10   |  |
|  |                         |                   | 75.0%             | 8.7               | 113               | 0.15 | 720                | 7.06  | 1.59  | 7740               | 6.37               | 10.47   |  |
|  |                         |                   | 87.5%             | 13.0              | 169               | 0.23 | 940                | 9.22  | 2.07  | 8820               | 5.56               | 9.14    |  |
|  |                         |                   | 100.0%            | 16.9              | 220               | 0.30 | 1120               | 10.98 | 2.47  | 9680               | 5.09               | 8.37    |  |
|  |                         | 10" x 3.3         | 25.0%             | 0.6               | 7                 | 0.01 | 110                | 1.08  | 0.24  | 3000               | 15.71              | 25.83   |  |
|  |                         |                   | 37.5%             | 1.4               | 18                | 0.02 | 220                | 2.16  | 0.49  | 4440               | 12.22              | 20.09   |  |
|  |                         |                   | 50.0%             | 2.7               | 35                | 0.05 | 340                | 3.33  | 0.75  | 5760               | 9.71               | 15.97   |  |
|  |                         |                   | 62.5%             | 4.6               | 60                | 0.08 | 490                | 4.81  | 1.08  | 6980               | 8.17               | 13.43   |  |
|  |                         |                   | 75.0%             | 7.2               | 94                | 0.13 | 680                | 6.67  | 1.50  | 8100               | 7.23               | 11.89   |  |
|  |                         |                   | 87.5%             | 10.7              | 140               | 0.19 | 900                | 8.83  | 1.98  | 9300               | 6.43               | 10.57   |  |
|  |                         |                   | 100.0%            | 14.1              | 185               | 0.25 | 1070               | 10.49 | 2.36  | 10140              | 5.78               | 9.51    |  |
|  |                         | 11" x 3.7         | 25.0%             | 0.8               | 10                | 0.01 | 150                | 1.47  | 0.33  | 2880               | 15.00              | 24.66   |  |
|  |                         |                   | 37.5%             | 1.8               | 22                | 0.03 | 300                | 2.94  | 0.66  | 4140               | 13.64              | 22.42   |  |
|  |                         |                   | 50.0%             | 3.7               | 48                | 0.06 | 470                | 4.61  | 1.04  | 5340               | 9.79               | 16.10   |  |
|  |                         |                   | 62.5%             | 6.2               | 81                | 0.11 | 670                | 6.57  | 1.48  | 6480               | 8.27               | 13.60   |  |
|  |                         |                   | 75.0%             | 9.7               | 126               | 0.17 | 890                | 8.73  | 1.96  | 7440               | 7.06               | 11.61   |  |
|  |                         |                   | 87.5%             | 14.5              | 190               | 0.25 | 1150               | 11.28 | 2.54  | 8460               | 6.05               | 9.95    |  |
|  |                         |                   | 100.0%            | 18.5              | 242               | 0.32 | 1340               | 13.14 | 2.95  | 9120               | 5.54               | 9.10    |  |
|  | 12" x 4.0               | 25.0%             | 1.0               | 13                | 0.02              | 190  | 1.86               | 0.42  | 2700  | 14.62              | 24.03              |         |  |
|  |                         | 37.5%             | 2.2               | 29                | 0.04              | 340  | 3.33               | 0.75  | 3900  | 11.72              | 19.27              |         |  |
|  |                         | 50.0%             | 4.7               | 61                | 0.08              | 550  | 5.39               | 1.21  | 4920  | 9.02               | 14.82              |         |  |
|  |                         | 62.5%             | 8.1               | 106               | 0.14              | 790  | 7.75               | 1.74  | 5880  | 7.45               | 12.25              |         |  |
|  |                         | 75.0%             | 12.4              | 162               | 0.22              | 1020 | 10.00              | 2.25  | 6720  | 6.30               | 10.35              |         |  |
|  |                         | 87.5%             | 17.9              | 235               | 0.32              | 1260 | 12.36              | 2.78  | 7440  | 5.36               | 8.81               |         |  |
|  |                         | 100.0%            | 22.7              | 297               | 0.40              | 1450 | 14.22              | 3.20  | 8040  | 4.88               | 8.03               |         |  |
|  | 15.4V (4S)<br>17.4V MAX | 9" x 3.0          | 25.0%             | 0.7               | 11                | 0.01 | 130                | 1.27  | 0.29  | 4080               | 11.82              | 19.43   |  |
|  |                         |                   | 37.5%             | 1.8               | 30                | 0.04 | 250                | 2.45  | 0.55  | 5940               | 8.33               | 13.70   |  |
|  |                         |                   | 50.0%             | 3.4               | 59                | 0.08 | 430                | 4.22  | 0.95  | 7740               | 7.29               | 11.98   |  |
|  |                         |                   | 62.5%             | 5.5               | 95                | 0.13 | 610                | 5.98  | 1.34  | 9180               | 6.42               | 10.56   |  |
|  |                         |                   | 75.0%             | 8.5               | 147               | 0.20 | 840                | 8.24  | 1.85  | 10380              | 5.71               | 9.39    |  |
|  |                         |                   | 87.5%             | 13.0              | 225               | 0.30 | 1130               | 11.08 | 2.49  | 12180              | 5.02               | 8.26    |  |
|  |                         |                   | 100.0%            | 17.1              | 296               | 0.40 | 1360               | 13.34 | 3.00  | 13320              | 4.59               | 7.55    |  |
|  |                         | 9" x 4.5 (DJI)    | 25.0%             | 1.0               | 16                | 0.02 | 180                | 1.77  | 0.40  | 3840               | 11.25              | 18.49   |  |
|  |                         |                   | 37.5%             | 2.6               | 45                | 0.06 | 370                | 3.63  | 0.82  | 5520               | 8.22               | 13.52   |  |
|  |                         |                   | 50.0%             | 4.9               | 84                | 0.11 | 580                | 5.69  | 1.28  | 6980               | 6.90               | 11.35   |  |
|  |                         |                   | 62.5%             | 8.3               | 144               | 0.19 | 830                | 8.14  | 1.83  | 8280               | 5.76               | 9.48    |  |
|  |                         |                   | 75.0%             | 12.7              | 220               | 0.30 | 1120               | 10.98 | 2.47  | 9480               | 5.09               | 8.37    |  |
|  |                         |                   | 87.5%             | 18.6              | 324               | 0.43 | 1400               | 13.73 | 3.09  | 10620              | 4.32               | 7.10    |  |
| 100.0%   |                         |                   | 24.5              | 425               | 0.57              | 1650 | 16.18              | 3.64  | 11700 | 3.88               | 6.38               |         |  |
| 10" x 3.3  |                         | 25.0%             | 0.9               | 15                | 0.02              | 190  | 1.86               | 0.42  | 3900  | 12.67              | 20.82              |         |  |
|  |                         | 37.5%             | 2.1               | 37                | 0.05              | 340  | 3.33               | 0.75  | 5640  | 9.19               | 15.11              |         |  |
|  |                         | 50.0%             | 4.1               | 71                | 0.10              | 540  | 5.30               | 1.19  | 7280  | 7.61               | 12.50              |         |  |
|  |                         | 62.5%             | 6.9               | 120               | 0.16              | 790  | 7.75               | 1.74  | 8780  | 6.58               | 10.82              |         |  |
|  |                         | 75.0%             | 10.7              | 186               | 0.25              | 1060 | 10.40              | 2.34  | 10080 | 5.70               | 9.37               |         |  |
|  |                         | 87.5%             | 15.8              | 274               | 0.37              | 1370 | 13.44              | 3.02  | 11480 | 5.00               | 8.22               |         |  |
|  |                         | 100.0%            | 20.9              | 363               | 0.49              | 1620 | 15.89              | 3.57  | 12360 | 4.46               | 7.34               |         |  |
| 11" x 3.7  |                         | 25.0%             | 1.1               | 18                | 0.02              | 250  | 2.45               | 0.55  | 3720  | 13.89              | 22.83              |         |  |
|  |                         | 37.5%             | 2.6               | 45                | 0.06              | 440  | 4.31               | 0.97  | 5220  | 9.78               | 16.07              |         |  |
|  |                         | 50.0%             | 5.6               | 96                | 0.13              | 720  | 7.06               | 1.59  | 6720  | 7.50               | 12.33              |         |  |
|  |                         | 62.5%             | 9.3               | 161               | 0.22              | 1010 | 9.90               | 2.23  | 7920  | 6.27               | 10.31              |         |  |
|  |                         | 75.0%             | 14.2              | 247               | 0.33              | 1330 | 13.04              | 2.93  | 9060  | 5.38               | 8.85               |         |  |
|  |                         | 87.5%             | 20.8              | 361               | 0.48              | 1650 | 16.18              | 3.64  | 10020 | 4.57               | 7.51               |         |  |
|  |                         | 100.0%            | 27.4              | 476               | 0.64              | 1960 | 19.22              | 4.32  | 11040 | 4.12               | 6.77               |         |  |
| Note : performance chart provided under the test conditions listed below. Measurements taken under alternate conditions will affect the final results. |                         |                   |                   |                   |                   |      |                    |       |       |                    |                    |         |  |
| Location : KDE Direct HQ Dynamometer V2 (Bend, Oregon)   |                         |                   |                   |                   |                   |      |                    |       |       |                    |                    |         |  |
| Altitude : 3730 ft (1137 m)  |                         |                   |                   |                   |                   |      |                    |       |       |                    |                    |         |  |
| Pressure : 30.3 inHg (1026 hPa)  |                         |                   |                   |                   |                   |      |                    |       |       |                    |                    |         |  |
| Temperature : 72 °F (22°C)   |                         |                   |                   |                   |                   |      |                    |       |       |                    |                    |         |  |
| Humidity : 35% (Relative)  |                         |                   |                   |                   |                   |      |                    |       |       |                    |                    |         |  |