

# Technical Data

## 2014 BMW 6 Series Convertible

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|                                             |                   | 640i<br>Convertible                 | 640i xDrive<br>Convertible          | 650i<br>Convertible               | M6<br>Convertible                 | M6<br>Convertible                 |
|---------------------------------------------|-------------------|-------------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Engine type                                 |                   | N55B3000                            | N55B3000                            | N63B4401                          | S63B44T0                          | S63B44T0                          |
| Transmission type                           |                   | automatic transmission 8            | automatic transmission 8            | automatic transmission 8          | M-DCT 7                           | manual transmission 6             |
| No of Doors / Seats                         | /                 | 2 / 4                               | 2 / 4                               | 2 / 4                             | 2 / 4                             | 2 / 4                             |
| Veh. length                                 | mm / inch         | 4896 / 192.8                        | 4896 / 192.8                        | 4896 / 192.8                      | 4903 / 193                        | 4903 / 193                        |
| Veh. width                                  | mm / inch         | 1894 / 74.6                         | 1894 / 74.6                         | 1894 / 74.6                       | 1899 / 74.8                       | 1899 / 74.8                       |
| Veh. height                                 | mm / inch         | 1365 / 53.7                         | 1365 / 53.7                         | 1365 / 53.7                       | 1368 / 53.9                       | 1368 / 53.9                       |
| Wheelbase                                   | mm / inch         | 2855 / 112.4                        | 2855 / 112.4                        | 2855 / 112.4                      | 2851 / 112.2                      | 2851 / 112.2                      |
| Turning circle                              | m / ft            | 11.7 / 38.4                         | 11.7 / 38.4                         | 11.7 / 38.4                       | 12.1 / 39.7                       | 12.1 / 39.7                       |
| Ground clearance                            | mm / inch         | 123 / 4.8                           | 123 / 4.8                           | 123 / 4.8                         | 107 / 4.2                         | 107 / 4.2                         |
| Shoulder width front                        | mm / inch         | 1445 / 56.9                         | 1445 / 56.9                         | 1445 / 56.9                       | 1445 / 56.9                       | 1445 / 56.9                       |
| Shoulder width rear                         | mm / inch         | 1260 / 49.6                         | 1260 / 49.6                         | 1260 / 49.6                       | 1260 / 49.6                       | 1260 / 49.6                       |
| Legroom front                               | mm / inch         | 1069 / 42.1                         | 1069 / 42.1                         | 1069 / 42.1                       | 1069 / 42.1                       | 1069 / 42.1                       |
| Legroom rear                                | mm / inch         | 774 / 30.5                          | 774 / 30.5                          | 774 / 30.5                        | 774 / 30.5                        | 774 / 30.5                        |
| Max. headroom front                         | mm / inch         | 1023 / 40.3                         | 1023 / 40.3                         | 1023 / 40.3                       | 1023 / 40.3                       | 1023 / 40.3                       |
| Max. headroom rear                          | mm / inch         | 927 / 36.5                          | 927 / 36.5                          | 927 / 36.5                        | 927 / 36.5                        | 927 / 36.5                        |
| Luggage comp. capacity                      | m³ / ft³          | 0,300-0,350 / 10,6-12,4             | 0,300-0,350 /                       | 0,300-0,350 / 10,6-12,4           | 0,300-0,350 /                     | 0,300-0,350 /                     |
| Fuel tank capacity                          | liter / gal       | 70 / 18.5                           | 70 / 18.5                           | 70 / 18.5                         | 80 / 21.1                         | 80 / 21.1                         |
| Curb weight (US)                            | Kg / lbs          | 1930 / 4255                         | 2021 / 4455                         | 2050 / 4520                       | 2048 / 4515                       | 2032 / 4480                       |
| Weight distribution (empty car)             | Front %/ Rear %   | 50.8 / 49.2                         | 52.2 / 47.8                         | 50.8 / 49.2                       | 50.9 / 49.1                       | 50.7 / 49.3                       |
| Gross veh. weight                           | Kg / lbs          | 2320 / 5115                         | 2409 / 5310                         | 2461 / 5425                       | 2411 / 5315                       | 2411 / 5315                       |
| Payload                                     | Kg / lbs          | 350 / 772                           | 349 / 770                           | 349 / 770                         | 363 / 800                         | 379 / 835                         |
| Axle load limit front                       | Kg / lbs          | 1110 / 2447                         | 1191 / 2625                         | 1225 / 2700                       | 1200 / 2645                       | 1200 / 2645                       |
| Axle load limit rear                        | Kg / lbs          | 1300 / 2866                         | 1311 / 2890                         | 1320 / 2910                       | 1261 / 2780                       | 1261 / 2780                       |
| Engine type / Cylinders / Valves p.cyl.     |                   | in line, VANOS, Valvetronic / 6 / 4 | in line, VANOS, Valvetronic / 6 / 4 | V 90 ° VANOS, Valvetronic / 8 / 4 | V 90 ° VANOS, Valvetronic / 8 / 4 | V 90 ° VANOS, Valvetronic / 8 / 4 |
| Engine management                           |                   | MEVD 17.2.6                         | MEVD 17.2.6                         | MEVD 17.2.H                       | MSD 17                            | MSD 17                            |
| Induction type                              |                   | Single Twin Scroll Turbo            | Single Twin Scroll Turbo            | Twin Turbo                        | Two Twin Scroll Turbos            | Two Twin Scroll Turbos            |
| Injection type                              |                   | High precision direct injection     | High precision direct injection     | High precision direct injection   | High precision direct injection   | High precision direct injection   |
| Displacement                                | cm³ / inch³       | 2979 / 182                          | 2979 / 182                          | 4395 / 268                        | 4395 / 268                        | 4395 / 268                        |
| Stroke                                      | mm / inch         | 89.6 / 3.5                          | 89.6 / 3.5                          | 88.3 / 3.5                        | 88.3 / 3.5                        | 88.3 / 3.5                        |
| Bore                                        | mm / inch         | 84 / 3.3                            | 84 / 3.3                            | 89 / 3.5                          | 89 / 3.5                          | 89 / 3.5                          |
| Engine power / at rpm                       | hp @ rpm          | 315 / 5800-6000                     | 315 / 5800-6000                     | 445 / 5500-6000                   | 560 / 6000-7000                   | 560 / 6000-7000                   |
| Engine torque / at rpm                      | ft lbs (Nm) @ rpm | 330 (450) / 1400-4500               | 330 (450) / 1400-4500               | 480 (650) / 2000-4500             | 500 (680) / 1500-5750             | 500 (680) / 1500-5750             |
| Compression rate / Fuel type (recomm.)      | / : 1             | 10.2 / Premium                      | 10.2 / Premium                      | 10 / Premium                      | 10 / Premium                      | 10 / Premium                      |
| Type of transmission                        |                   | 8HP45                               | 8HP45                               | 8HP70                             | M-DKG 436                         | G                                 |
| Gear ratios 1st gear                        |                   | 4.714                               | 4.714                               | 4.714                             | 4.806                             | 4.055                             |
| 2nd gear                                    |                   | 3.143                               | 3.143                               | 3.143                             | 2.593                             | 2.396                             |
| 3rd gear                                    |                   | 2.106                               | 2.106                               | 2.106                             | 1.701                             | 1.582                             |
| 4th gear                                    |                   | 1.667                               | 1.667                               | 1.667                             | 1.277                             | 1.192                             |
| 5th gear                                    |                   | 1.285                               | 1.285                               | 1.285                             | 1                                 | 1                                 |
| 6th gear                                    |                   | 1                                   | 1                                   | 1                                 | 0.844                             | 0.872                             |
| 7th gear                                    |                   | 0.839                               | 0.839                               | 0.839                             | 0.671                             | N/A                               |
| 8th gear                                    |                   | 0.667                               | 0.667                               | 0.667                             | N/A                               | N/A                               |
| Reverse gear                                |                   | 3.295                               | 3.295                               | 3.317                             | 4.172                             | 3.677                             |
| Final drive                                 |                   | 3.231                               | 3.231                               | 2.813                             | 3.154                             | 3.154                             |
| Steering type / Steering transmission, over | / : 1             | rack-and-pinion / 17.2              | rack-and-pinion / 18.7              | rack-and-pinion / 17.2            | rack-and-pinion / 13.1            | rack-and-pinion / 13.1            |
| Front brake // Diameter                     | inch              | disc ventilated // 13.7             | disc ventilated // 13.7             | disc ventilated // 14.7           | disc ventilated // 16.1           | disc ventilated // 16.1           |
| Rear brake // Diameter                      | inch              | disc ventilated // 13.6             | disc ventilated // 13.6             | disc ventilated // 13.6           | disc ventilated // 15.6           | disc ventilated // 15.6           |
| Cd // Frontal                               | ft m² / ft²       | 0.32 // 2.23 / 24.01                | 0.31 // 2.23 / 24.01                | 0.32 // 2.23 / 24.01              | 0.33 // 2.29 / 24.65              | 0.33 // 2.29 / 24.65              |
| Top speed                                   | Km/h / mph        | 210 / 130                           | 210 / 130                           | 250 / 155                         | 250 / 155                         | 250 / 155                         |
| Top speed optional                          | Km/h / mph        | 250 / 155                           | 250 / 155                           |                                   |                                   |                                   |
| Acceleration 0-60 mph                       | s                 | 5.4                                 | 5.4                                 | 4.5                               | 4.2                               | 4.4                               |
| Acceleration 0-100Km/h                      | s                 | 5.7                                 | 5.5                                 | 4.7                               | 4.3                               |                                   |
| Acceleration 0-1000m                        | s                 | 25.4                                | 25.5                                | 23.2                              | 22.1                              |                                   |
| Fuel cons. city (official EPA)              | mpg               | 20                                  | 20 preliminary                      | 17 preliminary                    | 14                                | 15                                |
| Fuel cons. highway (official EPA)           | mpg               | 30                                  | 29 preliminary                      | 20                                | 25 preliminary                    | 22                                |
| Fuel cons. combined (official EPA)          | mpg               | 24                                  | 23 preliminary                      | 20 preliminary                    | 16                                | 17                                |
| Range                                       | miles             | 444                                 | 426                                 | 370                               | 338                               | 359                               |
| Front tires                                 |                   | 245/45 R18 100V RSC                 | 245/45 R18 100V RSC                 | 245/40 R19 98 V XL RSC            | 265/40 ZR19 102Y XL               | 265/40 ZR19 102Y XL               |
| Rear tires                                  |                   | 245/45 R18 100V RSC                 | 245/45 R18 100V RSC                 | 245/40 R19 98 V XL RSC            | 295/35 ZR19 104Y XL               | 295/35 ZR19 104Y XL               |
| Front wheels                                |                   | 8J x 18 LM                          | 8J x 18 LM                          | 8.5J x 19 LM                      | 9.5J x 19                         | 9.5J x 19                         |
| Rear wheels                                 |                   | 8J x 18 LM                          | 8J x 18 LM                          | 8.5J x 19 LM                      | 10.5J x 19                        | 10.5J x 19                        |
| Track front                                 | mm / inch         | 1600 / 63                           | 1600 / 63                           | 1594 / 62.8                       | 1631 / 64.2                       | 1631 / 64.2                       |
| Track rear                                  | mm / inch         | 1665 / 65.6                         | 1665 / 65.6                         | 1651 / 65                         | 1612 / 63.5                       | 1612 / 63.5                       |

Technical Data

2014 BMW 6 Series Convertible

|                                             |                   |                                   |
|---------------------------------------------|-------------------|-----------------------------------|
|                                             |                   | 650i xDrive<br>Convertible        |
| Engine type                                 |                   | N63B44O1                          |
| Transmission type                           |                   | automatic transmission 8          |
| No of Doors / Seats                         | 1                 | 2 / 4                             |
| Veh. length                                 | mm / inch         | 4896 / 192.8                      |
| Veh. width                                  | mm / inch         | 1894 / 74.6                       |
| Veh. height                                 | mm / inch         | 1365 / 53.7                       |
| Wheelbase                                   | mm / inch         | 2855 / 112.4                      |
| Turning circle                              | m / ft            | 11.7 / 38.4                       |
| Ground clearance                            | mm / inch         | 123 / 4.8                         |
| Shoulder width front                        | mm / inch         | 1445 / 56.9                       |
| Shoulder width rear                         | mm / inch         | 1260 / 49.6                       |
| Legroom front                               | mm / inch         | 1069 / 42.1                       |
| Legroom rear                                | mm / inch         | 774 / 30.5                        |
| Max. headroom front                         | mm / inch         | 1023 / 40.3                       |
| Max. headroom rear                          | mm / inch         | 927 / 36.5                        |
| Luggage comp. capacity                      | m³ / ft³          | 0,300-0,350 / 10.6-12.4           |
| Fuel tank capacity                          | liter / gal       | 70 / 18.5                         |
| Curb weight (US)                            | Kg / lbs          | 2109 / 4650                       |
| Weight distribution (empty car)             | Front %/ Rear %   | 52.2 / 47.8                       |
| Gross veh. weight                           | Kg / lbs          | 2479 / 5465                       |
| Payload                                     | Kg / lbs          | 340 / 750                         |
| Axle load limit front                       | Kg / lbs          | 1250 / 2755                       |
| Axle load limit rear                        | Kg / lbs          | 1349 / 2975                       |
| Engine type / Cylinders / Valves p.cyl.     |                   | V 90 ° VANOS, Valvetronic / 8 / 4 |
| Engine management                           |                   | MEVD 17.2.H                       |
| Induction type                              |                   | Twin Turbo                        |
| Injection type                              |                   | High precision direct injection   |
| Displacement                                | cm³ / inch ³      | 4395 / 268                        |
| Stroke                                      | mm / inch         | 88.3 / 3.5                        |
| Bore                                        | mm / inch         | 89 / 3.5                          |
| Engine power / at rpm                       | hp @ rpm          | 445 / 5500-6000                   |
| Engine torque / at rpm                      | ft lbs (Nm) @ rpm | 480 (650) / 2000-4500             |
| Compression rate / Fuel type (recomm.)      | -:1 /             | 10 / Premium                      |
| Type of transmission                        |                   | 8HP70                             |
| Gear ratios 1st gear                        |                   | 4.714                             |
| 2nd gear                                    |                   | 3.143                             |
| 3rd gear                                    |                   | 2.106                             |
| 4th gear                                    |                   | 1.667                             |
| 5th gear                                    |                   | 1.285                             |
| 6th gear                                    |                   | 1                                 |
| 7th gear                                    |                   | 0.839                             |
| 8th gear                                    |                   | 0.667                             |
| Reverse gear                                |                   | 3.317                             |
| Final drive                                 |                   | 2.813                             |
| Steering type / Steering transmission, over | -:1               | rack-and-pinion / 18.7            |
| Front brake // Diameter                     | inch              | disc ventilated // 14.7           |
| Rear brake // Diameter                      | inch              | disc ventilated // 13.6           |
| Cd // Frontal                               | ft m² / ft²       | 0.32 // 2.23 / 24.01              |
| Top speed                                   | Km/h / mph        | 250 / 155                         |
| Top speed optional                          | Km/h / mph        |                                   |
| Acceleration 0-60 mph                       | s                 | 4.4                               |
| Acceleration 0-100Km/h                      | s                 | 4.6                               |
| Acceleration 0-1000m                        | s                 | 23.3                              |
| Fuel cons. city (official EPA)              | mpg               | 16                                |
| Fuel cons. highway (official EPA)           | mpg               | 24                                |
| Fuel cons. combined (official EPA)          | mpg               | 19                                |
| Range                                       | miles             | 352                               |
| Front tires                                 |                   | 245/40 R19 98 V XL RSC            |
| Rear tires                                  |                   | 245/40 R19 98 V XL RSC            |
| Front wheels                                |                   | 8,5J x 19 LM                      |
| Rear wheels                                 |                   | 8,5J x 19 LM                      |
| Track front                                 | mm / inch         | 1594 / 62.8                       |
| Track rear                                  | mm / inch         | 1651 / 65                         |