



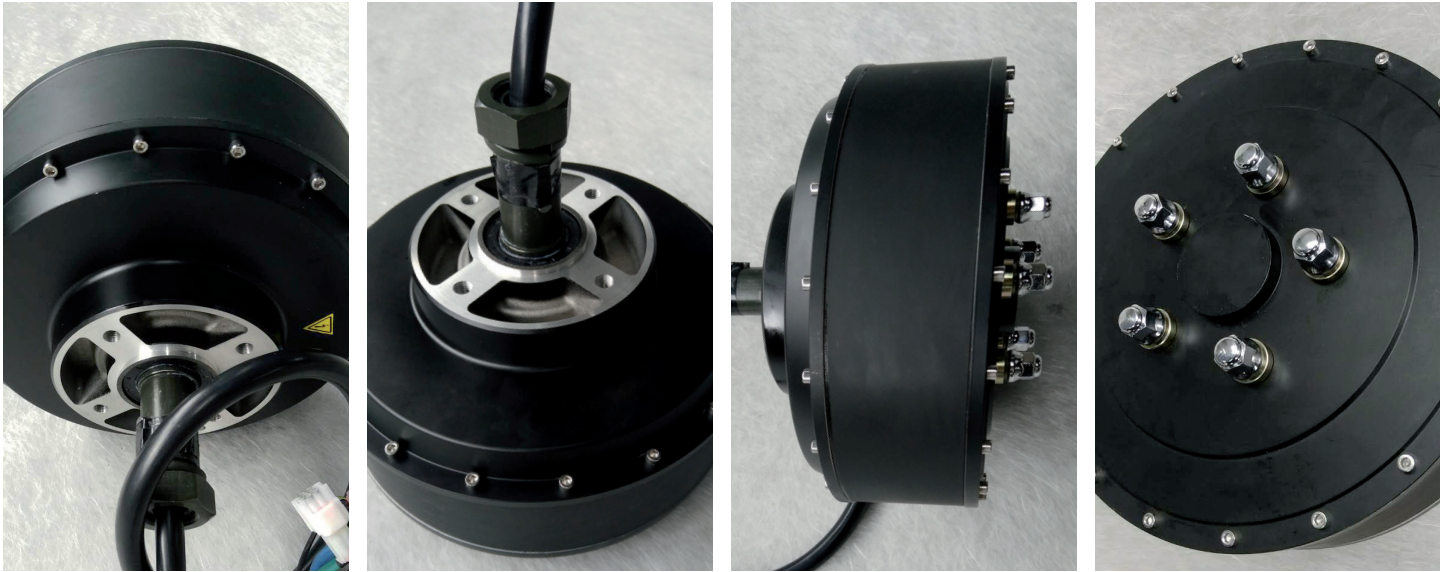
**MW MOTORS**  
We challenge the norm



# MWM In-wheel 196 Hub Motor

**The only 19,6kW in-wheel motor in the world  
to pass ECE R100 testing in an actual car**

# MWM In-wheel 196 Hub Motor



| No. | Parameter                  | Value                                 | Units           | Notes          |
|-----|----------------------------|---------------------------------------|-----------------|----------------|
| 01  | Motor Type                 | BLDC PMSM Outer Rotor Spoke Hub Motor |                 |                |
| 02  | Axle Configuration         | Single Axle                           |                 |                |
| 03  | Motor Diameter             | 298                                   | mm              |                |
| 04  | CB                         | ≥60                                   | mm              |                |
| 05  | PCD - Brake Disc/Wheel     | 4×114.3/5×112                         | mm              | Optional       |
| 06  | Magnet Height              | 50                                    | mm              |                |
| 07  | Number of Pole Pairs       | 16                                    | pairs           |                |
| 08  | Rated Power                | 8000                                  | W               |                |
| 09  | Peak Power                 | 19600                                 | W               |                |
| 10  | Rated Voltage              | 96                                    | V               |                |
| 11  | Voltage Range              | 48-120                                | V               |                |
| 12  | Rated Current              | 100                                   | A               |                |
| 13  | Peak Current               | 250                                   | A               |                |
| 14  | Rated Speed                | 1000                                  | RPM             |                |
| 15  | Peak Speed                 | 1200                                  | RPM             |                |
| 16  | Rated Torque               | 81.8                                  | N.m             |                |
| 17  | Peak Torque                | 255.4                                 | N.m             |                |
| 18  | Max. Efficiency            | 88.6                                  | %               |                |
| 19  | Matched Wheel              | ≥14                                   | inch            |                |
| 20  | Holder                     | Aluminium                             |                 |                |
| 21  | Number of Motor Phases     | 3                                     |                 |                |
| 22  | Hall Sensors               | 2                                     | set             | Waterproof     |
| 23  | Hall Working Voltage       | 5                                     | V               | 12(limitation) |
| 24  | Cross Section of Phase     | 16                                    | mm <sup>2</sup> |                |
| 25  | Thermic Probe              | KTY83/122                             |                 |                |
| 26  | Max. Operating Temperature | 70                                    | °C              | Peak 120°C     |
| 27  | Waterproof Grade           | IP54                                  |                 |                |
| 28  | Color                      | Black                                 |                 |                |
| 29  | G.W./N.W.                  | 25.5/24 kg                            |                 |                |
| 30  | Package                    | 43×43×34                              | cm <sup>3</sup> | Carton         |



**Warning:** All the parameter list in this document are standard substance, any value set out of this range need calibration by MWM.



**Warranty:** Full 3 year warranty IF the part is used in a vehicle produced by MW Motors & installed by a MW Motors staff member. Otherwise no warranty.



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