The Research and Design of A High Efficiency Charger for the Hybrid Power Type Electrical Drive Motorcycle

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ABSTRACT

Because the load of traffic and industry grow up very quickly, and the problems of air pollution becomes more serious. Moreover, many countries try to enhance their economic and industry, but don ’ t care about the problem of environment. One day, the source of energy will be used up and the earth will be destroyed also. In order to solve the problem of air pollution, the development of electrical power car and electrical power motorcycle is one of the best methods. However, there are many limitations about them, such as conrenience, mileage, efficiency, etc. Therefore, how to enhance the interesting of the customers is very important. In this thesis, we try to develop a high power factor, high efficiency, and high capacity charger for the electrical power automobiles. Of course, we know that the development of charger will have many problems. It this thesis, we try to combine the techniques of power electronic, computer, and automatic control to develop a smart charger to solve such problems.

Keywords : Air Pollution ; High Efficiency ; High Capacity Charger.

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