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Smart Charging Station for Electrical Vehicle

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Abstract: *Many alternative styles of electrical vehicle (EV) charging technologies are described in literature and implemented in practical applications. This paper present an overview of the existing and proposed EV charging technologies in terms of converter cartography, the power levels, power flow directions and charging control strategies. An overview of the main charging methods is presented as well, particularly the goal is to highlight an effective and fast charging technique for lead acid battery. The invention relates to a charging technique of AN electrical vehicle charger, and particularly relates to a charging technique within the floating charging part. The charging method is categorized in that different current values can be selected according to the capability of a battery. Although electric vehicles (EVs) present benefits for the public as a whole, there are a number of hurdle for their extensive adoption, mainly the high speculation cost for the EV and for the infrastructure. Therefore, a sound industry model must be built up for charging service operators, which allows them to recover their costs while, at the same time, offer EV users a charging price which makes electro-mobility equivalent to inner combustion engine vehicles.*

Keywords: Electrical Vehicle Charging, Fast Charging Technique, Floating Charging Phase.

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