

CHARGING ADAPTER AND CHARGING PROTECTION METHOD FOR ELECTRIC VEHICLE

ABSTRACT

A charging adapter for electric vehicle comprises a connecting mechanism; a control board that may monitor the temperature change inside the charging adapter and control the switch-off of the charging current; a charging plug and a charging socket installed at two ends of the connecting mechanism respectively, and a 1K resistor connected in series to CC1 and CC2 pins of the charging socket, when used, the charging plug is connected to the charging socket of the electric vehicle, and the charging socket is connected to the charging gun to activate the operating control system of the electric vehicle; the locking pressure plate installed in the surface of the end of connection mechanism near the charging plug; and an electromagnet iron installed inside the connection mechanism, located under the locking pressure plate, and the electromagnet iron is combined with the locking pressure plate to lock the charging adapter with the charging socket of the electric vehicle.

(Fig. 1)