

Abstract

The present disclosure discloses a wireless charging system based on strongly coupled magnetic resonance, including a transmitter coil and a receiver coil both arranged oppositely; transmitter coil and receiver coil both include at least one layer of a coil array; each layer of coil array includes at least two coil units and coil units are arranged in a matrix; each coil unit includes a spiral coil and an annular feed coil sleeved with the spiral coil; a middle part of one side of the feed coil is disconnected to form an input port and an output port, and a middle part of another side of the feed coil is connected with an adjustable capacitor; the spiral coils of two adjacent coil units in the coil array have opposite spiral directions; each row of the coil unit in each layer of coil array is arranged along a curved surface.

[Fig. 1]