

20 KW Medium Frequency Power Supply PECVD MFG4

Product Code: Mid frequency power source

Weight: 0.00kg

Dimensions: 0.00cm x 0.00cm x 0.00cm

Short Description

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Description

Medium frequency power supply PECVD MFG4--20 KW

* Special for PECVD film formation of photovoltaic cell tube, depositing nano silicon nitride film on the surface of silicon wafer

Built-in lightning arrester and surge dual protection, FC passive filter + EMI filter, no interference to equipment system;

* Main circuit PFC + (Sic and IGBT) combined full-bridge circuit, combined with DSP + FPGA digital control,

Output stable square wave voltage, wafer SPC uniformity < 3.95%

* New generation Sic semiconductor device reliability > 12 times MOSFET thermal conductivity 4 times faster;

Power failure rate < 0.1%

* The power transformer is made of nanocrystalline magnetic core material:

Has extremely high magnetic permeability, high saturation magnetic induction intensity, low Los , wide frequency characteristic, small magnetic leakage, small volume, simple and convenient winding, easy voltage resistance control and fault risk less than 1.

* Arc suppression management

When I-Arc is detected, the power can be cut off and restarted within < 10ms.

Control adjustment starts within < 1 μs when V-Arc is detected

Residual Arc energy < 1mJ/kW, prevent sticking point scorch; improve yield; sticking point scorch < 0.16%

* Sic device adopts large water cooling system + auxiliary air cooling design

Multiple temperature control monitoring and protection Compared with imported products, the temperature is 4 to 6 degrees lower, and the power density of the same size is more than 10%.

* Configuration panel operation and Modbus communication; dual operation and monitoring, communication protocol compatible with German Hottinger power supply, easy to install quickly, connect to PLC, easy to operate