40 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
40 KW Medium Frequency Power Supply PECVD MFG4

Description
PECVD MFG4 40 KW MF Magnetron Sputtering Power Supply

Items	Parameter
Input voltage & frequency:	380 -400Vac 3P +PE 50 -60HZ
Output power:	40KW
Output current Max:	100A
Output voltage Max:	600V
Operating mode:	Constant power KW/constant current I
Output waveform:	Square wave
Operating frequency:	40KHZ / ±0.01%
Pulse off time:	5-1000 ms
Pulse on time:	1-100 ms
Pulse mode:	0.1ms step
Output channel:	Single Channel
Load matching:	Ultra-wide load matching capability without switching gears (5-10 ?)
Size mm total	4 U 19 177 H X 482 W 644 D 48 Kg
Communication interface:	Modbus, compatible with German TrumRF power supply, seamless switching

* 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 ?s 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 equipment PLC, easy to operate.