

Photovoltaic PECVD RF Frequency Power Supply (Single Output)

Product Code: RF frequency power supply
(single output)

Weight: 40.00kg

Dimensions: 0.00cm x 0.00cm x 0.00cm



Short Description

This unit is specially used for the tubular PECVD film formation of photovoltaic cells. It can deposit about 100 nanometers on the surface of the silicon wafer with a conversion efficiency of >23% dark blue silicon nitride film.

Description

?This unit has built-in lightning arrester and surge protector double protection, FC passive filter device + EMI filter, to obtain green energy power supply.

?Its main circuit topology adopts PFC + the world's latest generation of Sic and IGBT combined full-bridge structure, combined with DSP + FPGA digital control technology, which greatly reduces the risk of failure. Compared with the old generation of Si-MOSET, the reliability of the new generation of Sic-MOSET power supply should be improved. 12 times, and 4 times higher thermal conductivity.

?We simplify the main circuit topology, reduce the complexity of heat dissipation design and installation, reduce the risk of potential failure, and improve the reliability of the product.

? Its power transformer adopts nanocrystalline magnetic core material. It has extremely high magnetic permeability, high saturation magnetic induction intensity, low coercivity,

low loss, wide frequency characteristics, high magnetic permeability at 30MHz, small magnetic leakage, small size, easy winding, voltage resistance and easy control, and failure risk <1

? Arc suppression management Detect abnormal voltage within ?300ns (OUT > 20% of reference) When I-Arc occurs, it can cut off and restart the power within 10ms When V-Arc occurs, voltage control adjustment starts within <5?s Residual Arc energy is less than 1mJ/kW, which can eliminate the problem of stuck points, thereby improving product yield and efficiency

? Its main power module adopts pure copper plate large water cooling system + auxiliary air cooling structure designIt has multiple temperature control sensors for monitoring and protection. Compared with imported products, the temperature is 4 to 6 degrees lower

Items	Parameters
Input Voltage & Frequency:	380-400Vac 3P +PE 50-60HZ
Output Power:	15KW-60KW
Output current max:	55A-180A
Output voltage max:	400V
Work mode	Constant power KW/constant current I
Working frequency:	40KHZ /±0.01%
Pulse mode:	Available in 0.1ms stepper
Load matching:	No need to switch gears, ultra-wide load matching capability?5-20??
Communication Interface:	DB9 female connector, analog port/ Modbus/ Profibus

Specification

Technical parameters	
Communication Interface	DB9 female connector Analog port/ Modbus/ Profibus
Input Voltage & Frequency	380-400Vac 3P +PE 50-60HZ
Output current	55A-180A
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