

Bipolar unit for dual cathode 【MFU-20K】

MFU-20K is a unit which converts the DC output into bipolar pulse output, by adding to ULVAC DC power generator (DPG series). It contributes to improved productivity and throughput at low cost.



Features

- ▶ **Reduction of the damage to substrates**
Highly efficient arc handling technology ensures the reduction of arc energy. It can reduce the arc-related damage to substrates.
- ▶ **Variable duty cycle**
Various processes can be performed by varying an output ratio to a dual cathode.
- ▶ **Wide frequency range**
Can be operated from 10k ~ 100kHz^{※1}
- ▶ **Enables the larger capacity by a master/slave connection**
Parallel operation of maximum six MFU-20K is possible.

※ 1: There is a limit depending on output.

Applications

- ▶ Reactive sputtering equipment for FPD
- ▶ Reactive sputtering equipment for industrial coating
- ▶ Reactive sputtering equipment for color TFT
- ▶ All sputtering equipment

Bipolar unit for dual cathode [MFU-20K]

Specifications

Model	MFU-20K	
Control power input	Rated input voltage	AC100V / AC240V
	Input voltage fluctuation range	90 to 264VAC
	Phase, frequency	1 phase, 50/60Hz
	Input capacity	400VA
Input Specification	Operatig voltage	0 to -1000V ^{*1}
	Non load voltage	-1200V
	Operatig current	50A
Output Specification	Maximum rated voltage	1000V(RMS) ^{*1}
	Non load voltage	DC-1200V
	Maximum Rated current	50A
	Oscillating frequency	10k to 100k ^{*2}
	Duty cycle	10 to 90% ^{*3}
Cooling method	Forced air-cooling	
Dimension (WxDxH)(excluding protrusions)	483mm×630mm×133mm	
Weight	37kg	
Applicable standard	CE / SEMI F47 / RoHS	

Ambient operating temperature 5°C~ 40°C (no condensation)

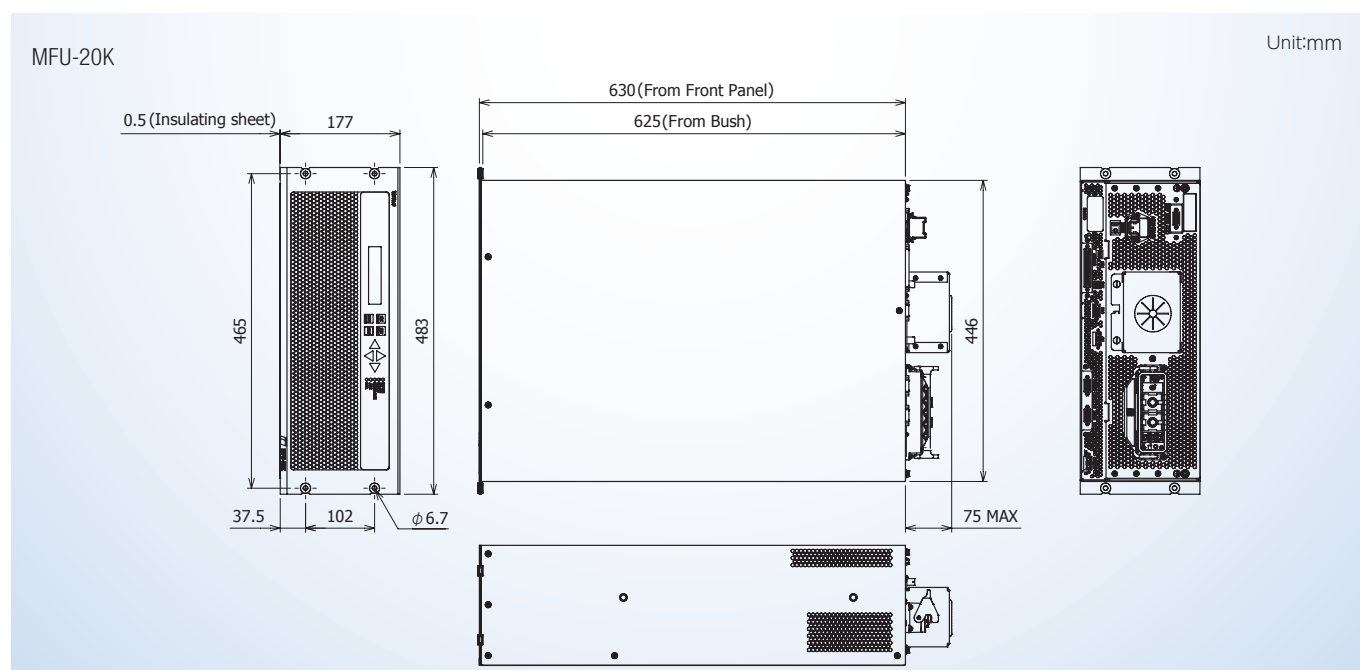
Operating environment: Avoid direct sunlight, heat, dust, vibration, and without corrosive gas.

※1: The frequency is subject to a limit at voltage more than 800V.

※2: The output is subject to a limit at frequency more than 60kHz.

※3: The duty cycle is limited depending on the oscillating frequency.

Dimensions



ULVAC, Inc. Components Division

www.ulvac.co.jp/en

Overseas Sales in Japan TEL +81-467-89-2261

USA : ULVAC Technologies, Inc. TEL +1-978-686-7550
 GERMANY : ULVAC GmbH TEL +49-89-960909-0
 CHINA : ULVAC (SHANGHAI) Trading Co.,Ltd. TEL (86)21-6127-6610
 TAIWAN : ULVAC TAIWAN, Inc. TEL +886-3-579-5688
 KOREA : ULVAC KOREA, Ltd. TEL +82-31-683-2922
 SINGAPORE : ULVAC SINGAPORE PTE LTD TEL +65-6542-2700

PHILIPPINES : ULVAC SINGAPORE PTE LTD Philippines Branch TEL +63-46-437-7700
 VIETNAM : ULVAC SINGAPORE PTE LTD Vietnam Representative Office TEL +84-8-6255-6762
 INDONESIA : ULVAC SINGAPORE PTE LTD Indonesia Representative Office TEL +62-21-8990-5070
 THAILAND : ULVAC (THAILAND) LTD TEL +66-2-7388883
 MALAYSIA : ULVAC MALAYSIA SDN. BHD. TEL +60-3-5121-4700
 INDIA : ULVAC, Inc., India Branch TEL +91-40-27007006

▶ This catalog is subject to change without notice.

▶ This catalog is published in order to sell this product in overseas. Please see Japanese catalog when purchasing in Japan.

2524E/2017062000SP