



ULVAC - Large Capacity DC Power Supply



DC-10-D / DC-20-D

ULVAC's new Digital DC Series sets a new benchmark in power supply technology for thin film deposition. Designed with unmatched stability, responsiveness, and control, these units deliver the highest levels of process reliability demanded in semiconductor, optical, and advanced coating industries.

Features

- Abundant high-performance option
- 1% rated precision — the highest standard in the industry, guaranteeing consistent, high-quality film deposition.
- Industry's first automatic recovery function after arc events, minimizing downtime and maximizing throughput.
- Featuring a truly unique ignition lamp system for smooth, reliable plasma startup every time.
- Lineup of output voltage range 800V and 1000V
- Output control that is familiar with plasma / Working temperature 5-40°C
- Up to 12 units can be operated in parallel
- Compliant with RoHS, CE, SEMI-F47

Applications

- Sputtering equipment for FPD
- Semiconductor Sputtering equipment
- Sputtering equipment for electronic components
- Sputtering equipment for industrial coating

Why Choose ULVAC Digital DC Series?

With the combination of ultra-fast arc management, high-voltage capability, and precision power control, ULVAC's Digital DC Series is engineered to support the most demanding film deposition environments. From semiconductor fabrication to advanced optical coatings, you gain:

- Improved yield through stable, repeatable power delivery
- Reduced downtime with automated arc recovery
- Higher throughput from reliable ignition and smooth ramping
- Confidence in performance backed by ULVAC's industry leadership



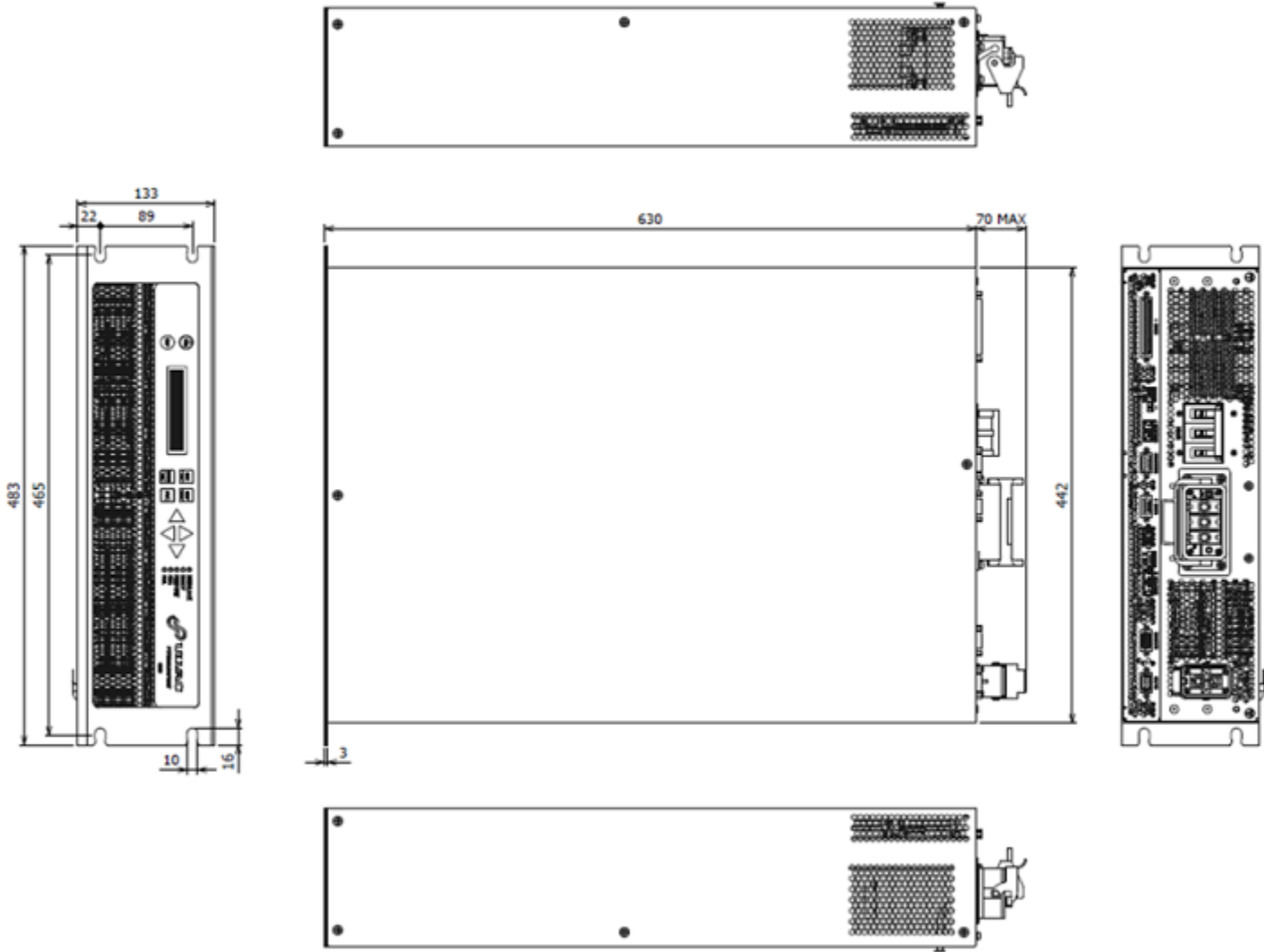
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Specifications

Model		DC-10-D	DC-10-DH	DC-20-D	DC-20-DH
Input	Input voltage	AC208V			
	Variation range	AC187V~229V			
	Phase/ Frequency	Three phase for 50/60Hz			
	Input connection	Connector			
	Input capacity	13.5kVA or less		25kVA or less	
Output	Rated power	10kW		20kW	
	Rated current	25A	18A	50A	40A
	Rated voltage	800V	1000V	800V	1000V
	ARC control	If ARC is detected, the inverter is stopped and LARC separates the load side			
	Output connection	Connector			
Control	Output control system	Constant power control/ Constant current control / Constant voltage control control (V control)			
	Control accuracy *1	1 to 10% of rated power : ±5% or less of set value 10-100% of rated power : The higher of ±0.5% or less of the rated output or ±1% of the set value			
	Guaranteed control range *2	Constant power control: 10 to 100% of the rated power value(Option : 1-100%)			
	Parallel operation *3	MAX 12 unit			
	Control mode system	LOCAL control / USER control / SERIAL communication control (RS232C or RS485)/EtherCAT *4			
Cooling		Air cooling			
Dimensions		483mm (W) ×630mm (D) ×133mm (H)			
Mass		29kg		36kg	
Standard		RoHS、CE、SEMI F47			

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Dimension drawing



Specification Notes:

Usage environment Indoor use at 1,000m or less above sea level without direct sunlight and corrosive gas.

*1: Option: Guaranteed accuracy in the range 1-10% of the rating.

*2: There is an output voltage lower limit and an output current lower limit. It is also possible to guarantee from 1% by option.

*3: Combination of 800V unit and 1000V unit is not possible.

*4: EtherCAT option.