

# DC Power generator [DPG-10/DPG-20]

The DPG-10/DPG-20 are 10kW/20kW DC power generators for sputtering. They are made of reliable components and circuits. These highly reliable power generators have been optimized for plasma loads with a design that reflects our many years of knowledge that includes power generator applications.



DPG-20

## Features

- ▶ **Light-weight/space-saving**  
Light-weight and space-saving design with excellent installation flexibility.
- ▶ **Selectable output voltage range**  
We feature a lineup with 800V specification in addition to 1000V specification.
- ▶ **Extensive arc handling**  
Extensive arc control methods familiar with plasma.
- ▶ **Requires no cooling water**  
Forced air cooling, requires no cooling water.
- ▶ **Can be equipped with a high-speed arc shutoff circuit**  
Achieves low arc energy as standard. Can also be equipped with a high-speed arc shutoff circuit as an option.
- ▶ **Can be equipped with a flexible parallel operation function**  
DPG-10, DPG-20: With the optional parallel operation function, 10kW and 20kW can be combined to allow up to 12 units to work together in parallel operation. (240kW max)

## Applications

- ▶ Flat panel display sputtering
- ▶ Semiconductor sputtering
- ▶ Touch panel sputtering
- ▶ Industrial coating sputtering

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## Specifications

Model	DPG-10	DPG-10H	DPG-20	DPG-20H
Input specification	Rated input voltage			
	208VAC			
	Input voltage fluctuation range			
	187 to 229VAC			
	Phase, frequency			
Three phase, 50/60Hz				
Input connector				
Connector connection				
Input capacity			25kVA or less	
13.5kVA or less				
Output specification	Maximum rated power			
	10kW		20kW	
	Rated current		33.3A	
	25A		16.7A	
	Rated voltage		800V	
	800V		1000V	
Output polarity				
Negative polarity				
Abnormal discharge control				
Shutoff by inverter stop or high-speed arc shutoff circuit*1 when abnormal discharge is detected				
Output connector				
Connector connection				
Control	Control method			
	Constant power control (P control)/constant current control (I control)/constant voltage control (V control)			
	Control precision			
	±1% or less of rated output			
Control warranty scope				
Constant power control, 10 to 100% of rated power value				
Parallel operation				
Up to 12units can be controlled by master/slave communication*2				
Cooling method				
Forced air-cooling				
Dimension (WxDxH) excluding protrusions				
483mm x 630mm x 133mm				
Weight			35kg	
28kg				
Applicable standard				
CE and SEMI F47				

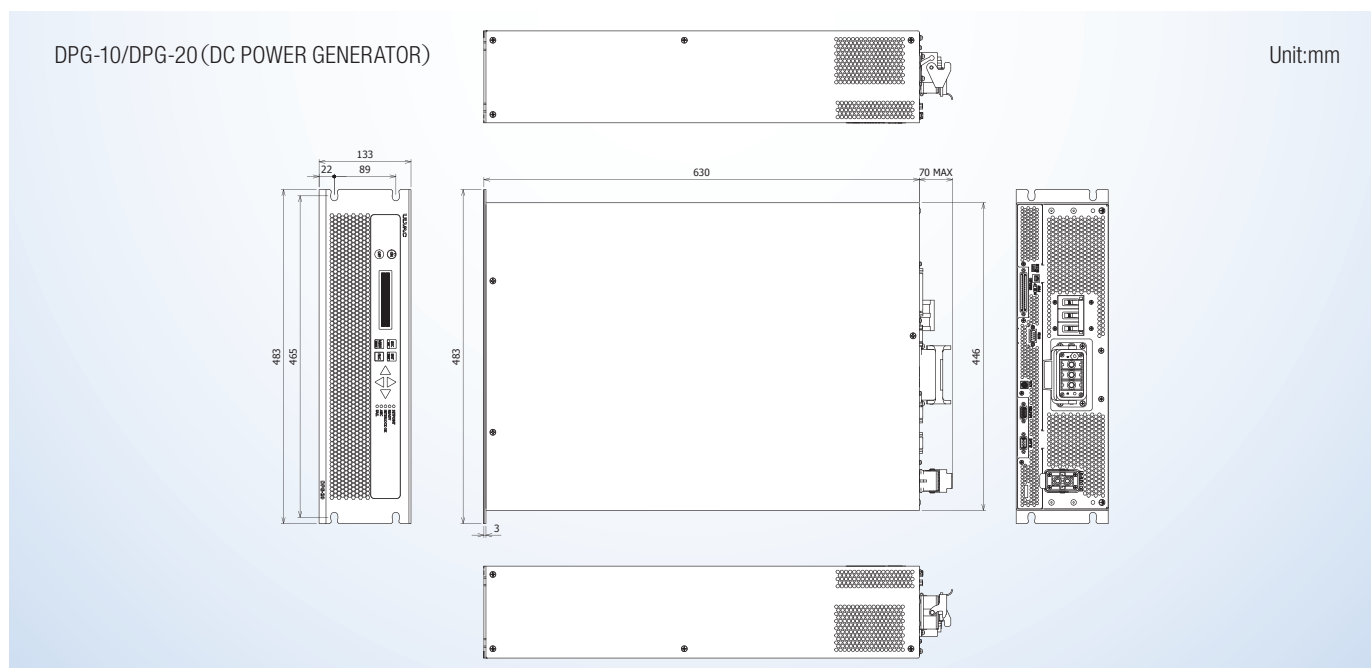
Ambient operating temperature 10°C ~ 40°C (no condensation)

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

※1: Option

※2: 800V specification units and 1000V specification units cannot be used together.

## Dimensions



ULVAC, Inc. Components Division

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