

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

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	13.5kVA or less		25kVA or less	
Output specification	Maximum rated power	10kW		20kW	
	Rated current	25A	16.7A	50A	33.3A
	Rated voltage	800V	1000V	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		28kg		35kg	
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

(unit: mm)

DPG-10/DPG-20 (DC POWER GENERATOR)

