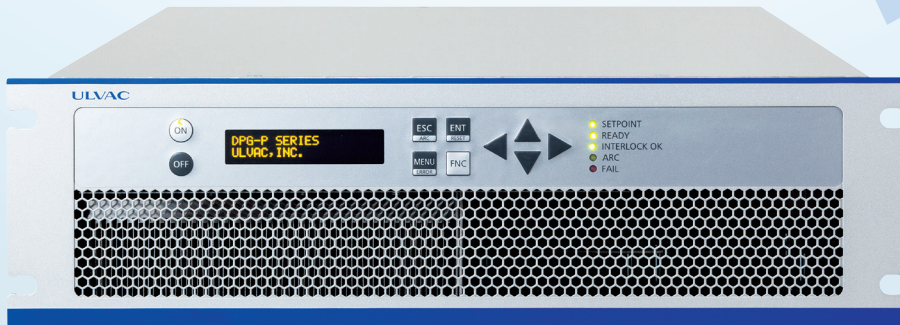


# Pulsed DC Power generators [DPG-5P/DPG-10P]

The DPG-5P/10P are 5kW/10kW pulsed dc power generators for reactive sputtering. This power generator change the minus output voltage in to plus voltage, and discharge the storage electron voltage of target surface. By this, yield and throughput improvement is realized.



DPG-10P

## Features

- ▶ **High throughput**  
Makes high power input possible by reducing abnormal discharge
- ▶ **Reduces substrate damage**  
Capable of reducing substrate damage caused by arcs
- ▶ **Variable inversion pulse frequency**  
Possible range: 10kHz to 250kHz
- ▶ **Capable of large capacities through master/slave connections**  
Up to six units can operate in parallel(The same model is available)
- ▶ **Corresponding to DC output**  
It cancels a pulse function and can output DC

## Applications

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

# Pulsed DC Power generators [DPG-5P/DPG-10P]

## Specifications

Model	DPG-5P	DPG-10P
Input specification	Rated input voltage	208VAC
	Input voltage fluctuation range	187 to 229VAC
	Phase, frequency	Three phase, 50/60Hz
	Input capacity	8kVA
Output specification	Maximum rated power	5kW
	Rated current	12.5A
	Rated voltage	650V/800V <sup>※1</sup>
	Oscillating frequency	10 to 250kHz, variable
	Reverse Time	0.4 to 5 $\mu$ s, variable <sup>※2</sup>
Control	Control method	Constant power control (P control) / Constant current control (I control) / Constant voltage control (V control)
	Control precision	0.5% of Maximum power or $\pm 1\%$ of set point, whichever is greater
	Control compensation range	Constant power control, 10 to 100% of rated power value
	Interface	Analog/Digital, RS-232C, RS-485
	Parallel operation	Up to 6units can be controlled by master/slave communication
Cooling method	Forced air-cooling	
Dimension (WxDxH) (excluding protrusions)	483mmx630mmx133mm	
Weight	29kg	36kg
Applicable standard	CE / SEMI F47 / RoHS	

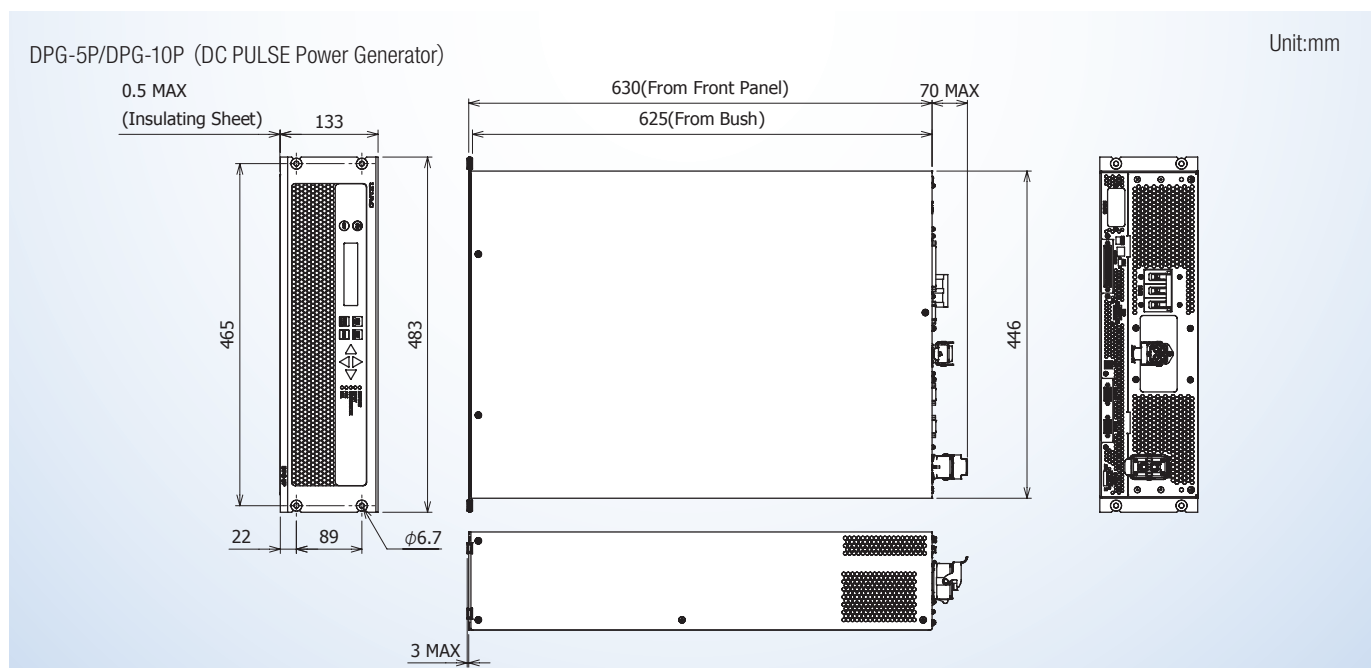
Ambient operating temperature 5°C ~ 40°C (no condensation)

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

※1: The rated voltage is restricted to 650V by more than 155 kHz of frequency.

※2: The reverse time is subject to a limit at frequency more than 81kHz.

## Dimensions



ULVAC, Inc. Components Division

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