



## Features

- Digital signal processing technology
- Programmable frequency up to 50 kHz
- High pulsed output power
- Free-adjustable pulse time control factors
- Fast arc suppression less than 2  $\mu$ s
- Versatile operation modes DC+, DC-, UP+, UP-, BP
- Symmetric Asymmetric pulsed output
- Arbitrary waveform pulsed input
- RS-232, Profibus DP

## Applications

- HiPIMS
- HiPIMS + MF
- Bias
- High Power Stack

Pulse modes	ON-times	OFF-times	Conditions
Unipolar + (UP+)	Ton+ 5 $\mu$ s	Toff+ 5 $\mu$ s	$\Sigma$ (Ton+ and Toff+) 20 $\mu$ s
Unipolar - (UP-)	Ton- 5 $\mu$ s	Toff- 5 $\mu$ s	$\Sigma$ (Ton- and Toff-) 20 $\mu$ s
Bipolar (BP)	Ton+ 5 $\mu$ s; Ton- 5 $\mu$ s	Toff+ 5 $\mu$ s; Toff- 5 $\mu$ s	$\Sigma$ (Ton $\pm$ and Toff $\pm$ ) 20 $\mu$ s
AWFG	all ON- and OFF-times 5 $\mu$ s		min. period time 20 $\mu$ s

Model	SPIK2000A-03	SPIK2000A-06	SPIK2000A-10	SPIK2000A-20
Pulse Output Power (max.)	+/- 30KW	+/- 60KW	+/- 100KW	+/- 200KW
Pulse Output Voltage (max.)	+/- 1000V	+/- 1000V	+/- 1000V	+/- 1000V
*) Pulse Output Current (max.)	+/- 30A	+/- 60A	+/- 100A	+/- 200A
DC Output Power	3KW	6KW	10KW	20KW
DC Output Voltage (max.)	+/- 1000V	+/- 1000V	+/- 1000V	+/- 1000V
DC Output Current (max.)	+/- 3A	+/- 6A	+/- 10A	+/- 20A
Arc suppression	$\leq 2\mu$ s	$\leq 2\mu$ s	$\leq 2\mu$ s	$\leq 2\mu$ s
Arc Level	0 - (+/- 30A)	0 - (+/- 60A)	0 - (+/- 100A)	0 - (+/- 200A)
Arc delay time	adj. 30 $\mu$ s	adj. 30 $\mu$ s	adj. 30 $\mu$ s	adj. 30 $\mu$ s
Operation Frequency (max.)	50kHz	50kHz	50kHz	50kHz
Cooling Capacity	Air	Air	Air/Water	Air/Water
Rate	-	-	$\leq 3.5$ L/min	$\leq 3.5$ L/min
Pressure	-	-	1.5kg/cm <sup>2</sup>	1.5kg/cm <sup>2</sup>
Temperature	-	-	25°C	25°C
Dimension Height	356mm (14.0 in)	445mm (17.5 in)	534mm (21.0 in)	534mm (21.0 in)
Width	440mm (17.3 in)	440mm (17.3 in)	440mm (17.3 in)	440mm (17.3 in)
Depth	685mm (24.0 in)	685mm (24.0 in)	685mm (25.6 in)	685mm (25.6 in)
Net Weight	45kg	63kg	89kg	91kg
Interface	RS232	RS232	RS232	RS232
Interface	Profibus DP	Profibus DP	Profibus DP	Profibus DP
*under conditions of save operating areas				

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