

SIPP2000USB Dual







	SIPP 2000 - 10 -500 - D		SIPP 2000 - 20 -500 - D	
	Channel A	Channel B	Channel A	Channel B
AC Input (controller)	230VAC 50/60Hz +/-10% PE		230VAC 50/60Hz +/-10% PE	
DC Input Voltage	1000 VDC	1000 VDC	1000 VDC	1000 VDC
DC Input Current	10 A	10 A	20 A	20 A
DC Input Power	5 KW	5 KW	10 KW	10 KW
Pulse Output Power	+/- 500 KW (peak)			
Pulse Output Voltage	+/-1000 V (max)	+/-1000 V (max)	+/-1000 V (max)	+/-1000 V (max)
Pulse Output Current	+/-500A (max) ≤ 2kHz +/- 100A (max) ≤ 50kHz	+/-500A (max) ≤ 2kHz +/- 100A (max) ≤ 50kHz	+/-500A (max) ≤ 2kHz +/- 100A (max) ≤ 50kHz	+/-500A (max) ≤ 2kHz +/- 100A (max) ≤ 50kHz
Pulse Time Conditions	UP+; Up-; BP	UP+; Up-; BP	UP+; Up-; BP	UP+; Up-; BP
HiPIMS ON Times +/-	≥ 20µs	≥ 20µs	≥ 20µs	≥ 20µs
HiPIMS OFF Times +/-	≥ 20µs	≥ 20µs	≥ 20µs	≥ 20µs
HiPIMS Frequency Conditions	∑(TON+/- and Toff+/-) ≥ 500 μs		∑(TON+/- and Toff+/-) ≥ 500 μs	
	Peak Pulse Current ≤ +/-500A		Peak Pulse Current ≤ +/-500A	
MF ON Times +/-	≥ 5µs	≥ 5µs	≥ 5µs	≥ 5µs
MF OFF Times +/-	≥ 5µs	≥ 5µs	≥ 5µs	≥ 5µs
MF Frequency Conditions	∑(TON+/- and Toff+/-) ≥ 20 μs		∑(TON+/- and Toff+/-) ≥ 20 μs	
	Peak Pulse Current ≤ +/-100A		Peak Pulse Current ≤ +/-100A	
СОМ	Optional: RS485; Profibus;		Optional: RS485; Profibus;	
User Interface	24VDC IN / Out		24VDC IN / Out	
Trigger Input	1x +/- 5V	1x +/- 5V	1x +/- 5V	1x +/- 5V
Trigger Output	4x +/- 5V		4x +/- 5V	
DC Power Supply Interface	2x ADL GmbH AS6.1		2x ADL GmbH AS6.1	
Cooling	Water / forced Air		Water / forced Air	
min. Water Flow Rate	≥3.5l/min		≥3.5l/min	
max. Water pressure	≤ 6bar		≤ 6bar	
19" Dimensions H / W /D	16HE (712mm) / 440mm / 690mm		16HE (712mm) / 440mm / 690mm	
Net Weight	102kg		102kg	

Features

- 2 x Synchronized pulse channels
- Intuitive software control (MCC Software)
- · Output modes: DC, UP+, UP- and BP
- Free Pulse Pattern generator
- Symmetric pulse output
- Arc suppression less than 2 μs
- 4 x Synchron trigger output
- 2 x Trigger input
- Max. 1000 V pulse output per channel
- Max. 500 A pulse output per channel
- Integrated control of two DC Units
- Reconfigurable for 1000A pulse peak output

Applications

- HiPIMS
- HiPIMS + MF
- HiPIMS + Bias

MELEC GmbH Dr.-Rudolf-Eberle-Str. 15 76534 Baden-Baden Germany Tel.: +49(0)7223 2814 5 01 Fax.: +49(0)7223 28145 09 E-mail:info@melec.de

