SIPP2000USB Single

MELEC GmbH
THE HIGH PULSE POWER COMPANY

Including MCC Software

Features

- Intuitive software control (MCC Software)
- Output modes: DC, UP+, UP- and BP
- Free Pulse Pattern Generator
- Symmetric or asymmetric pulse output
- Arc suppression less than 2 µs
- 4 x Synchron trigger output
- 1 x Trigger input
- Max. 1000 V pulse output
- Max. 1000 A pulse output
- Integrated control of two DC Units)

Applications

- HiPIMS
- MF
- Bias

SIPP2000USB-nn-1000-S	10	20	30
AC Input ; controller only	230V , 50/60 Hz, +/-10%, PE	230V , 50/60 Hz, +/-10%, PE	230V , 50/60 Hz, +/-10%, PE
DC Input Power	10kW (max.)	20kW (max.)	30kW (max.)
DC Input Voltage	1000 V (max)	1000 V (max)	1000 V (max)
DC Input Current	10 A DC max @1000V	20 A DC max @1000V	30 A DC max @1000V
Pulse Output Power	+/ - 1000 kW (peak)	+/ - 1000 kW (peak)	+/ - 1000 kW (peak)
Pulse Output Voltage	+/- 1000 V (max.)	+/- 1000 V (max.)	+/- 1000 V (max.)
Pulse Output Current	+/- 1000 A (max.) ≤ 2 kHz	+/- 1000 A (max.) ≤ 2 kHz	+/- 1000 A (max.) ≤ 2 kHz
	+/- 100 A (max.) ≤ 50 kHz	+/- 100 A (max.) ≤ 50 kHz	+/- 100 A (max.) ≤ 50 kHz
Arc suppression	≤ 2 µs	≤ 2 µs	≤ 2 µs
ARC Level Adjustment	+/- (0 - 1000 A)	+/- (0 - 1000 A)	+/- (0 - 1000 A)
ARC delay time	adj. ≥ 30 µs	adj. ≥ 30 µs	adj. ≥ 30 µs
Operation Frequency	+/- 1000 A (max.) ≤ 2 kHz max	+/- 1000 A (max.) ≤ 2 kHz max	+/- 1000 A (max.) ≤ 2 kHz max
	+/- 100 A (max.) ≤ 50 kHz max	+/- 100 A (max.) ≤ 50 kHz max	+/- 100 A (max.) ≤ 50 kHz max
Cooling Capacility	Air & Water	Air & Water	Air & Water
Water Rate	≥ 5 L / min.	≥ 5 L / min.	≥ 5 L / min.
Water Pressure	≤ 6bar	≤ 6bar	≤ 6bar
Temperature	≤ 25 ˚c	≤ 25 ˚c	≤ 25 ˚c
19" Dimensions: H / W / D	16 HE / 440 mm / 730 mm	16 HE / 440 mm / 730 mm	16 HE / 440 mm / 730 mm
Net Weight	95.6 kg	95.6 kg	95.6 kg
Interface	USB 2.0	USB 2.0	USB 2.0
Dc Power supply Interface	ADL GX AS6.1 (standard) AE PNCL DUAL ® User Port 24 V (alternative)	ADL GX AS6.1 (standard) AE PNCL DUAL ® User Port 24 V (alternative)	ADL GX AS6.1 (standard) AE PNCL DUAL ® User Port 24 V (alternative)
User Interface	USER INTERFACE (Interlock; Discharge Acknowledge.)	USER INTERFACE (Interlock; Discharge Acknowledge.)	USER INTERFACE (Interlock; Discharge Acknowledge.)
Trigger Outputs	2 x HPPMS trigger pulse ±5 V (BNC)	2 x HPPMS trigger pulse ±5 V (BNC)	2 x HPPMS trigger pulse ±5 V (BNC)
	2 x MF trigger pulse ±5 V (BNC)	2 x MF trigger pulse ±5 V (BNC)	2 x MF trigger pulse ±5 V (BNC)
Trigger Inputs	2 x BNC input (±5 V)	2 x BNC input (±5 V)	2 x BNC input (±5 V)