

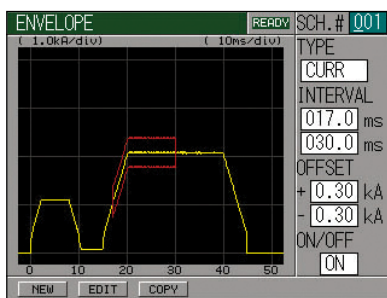


Fine Spot Welder IPB-5000B-MU DC Inverter Welding Power Supply

- Four control modes for process optimization for part manufacturing tolerances
- GOOD / NO GOOD determination signals if weld was successful providing instant feedback
- Displacement measurement indicates the amount of collapse the material exhibits during the weld.
- Envelope feature - allows users to set dynamic profile of limits around a setting.

KEY FEATURES

- **Control Modes** - Optimum control modes for obtaining ideal weld quality and consistency can be chosen from; constant current control, constant voltage control, combination of constant current and constant voltage control, and constant power control.
- **GOOD/NO GOOD determination** - The comparator feature allows to set upper and lower limits around the measured value of up to four parameters; which are current, voltage, power and resistance. When those values reach out of the limits, an error signal or a caution signal alarms.
- **Displacement Measurement** - Measures how much an electrode moves down because of material collapse during weld. Weld to displacement - stops welding when displacement value reaches the set value. Requires displacement sensor sold separately.
- **Envelope** - The envelope feature allows dynamic limits to be set around a monitored waveform to ensure the same resistance change occurs at the same rate for every weld.

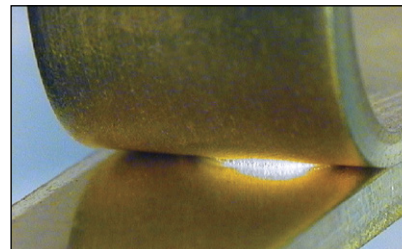


Red: envelope Yellow: current

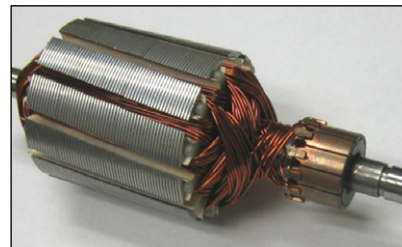
TYPICAL APPLICATIONS



Automotive sensor



Electrical bussbar



Motor armature

TECHNICAL SPECIFICATIONS

Model		IPB-5000B-MU
Power requirements		Three phase, 200-240 VAC or 380-480 VAC, 50/60 Hz
Primary frequency		5 kHz
Primary current		200 A
Feedback modes (Secondary supply)		Constant current, constant voltage, Combination of constant current and constant voltage control, constant power
Time setting	Number of weld schedules	127
	Squeeze delay	0000 – 9999 ms (1 ms increments)
	Squeeze	0000 – 9999 ms (1 ms increments)
	Pre-check weld	00.0 – 10.0 ms (0.2 ms increments)
	Pre-check	1 ms (fixed)
	Upslope	000.0 – 500.0 ms (0.2 ms increments)
	Weld 1	000.0 – 500.0 ms (0.2 ms increments)
	Downslope	000.0 – 500.0 ms (0.2 ms increments)
	Pause	00.0 – 99.8 ms (0.2 ms increments)
	Upslope	000.0 – 500.0 ms (0.2 ms increments)
	Weld 2	000.0 – 500.0 ms (0.2 ms increments)
	Downslope	000.0 – 500.0 ms (0.2 ms increments)
	Hold	000 – 999 ms (1ms increments)
Current setting range		0.40 – 6.00 kA
Current monitor		0.00 – 9.99 kA
Displacement monitor		-29.999 mm to 29.999 mm

TECHNICAL SPECIFICATIONS - TRANSFORMERS

Model	ITB-780B6
Rated capacity	17.4 kVA
Rated primary voltage	600/300 V (Rear Panel Jumper selection) See user Manual
Secondary voltage, no load	13 V
Maximum secondary current (Maximum duty cycle)	6000 A (2.5%) @480 VAC * 4000 A (2.5%) @240 VAC *
Cooling method	Forced air cooling
Frequency	5 kHz
Turns ratio of transformers	46:1 @480 VAC 23:1 @240 VAC

* Max secondary current dependent on secondary impedance.

WEIGHT & DIMENSIONS

	IPB-5000B-MU	ITB-780B6
Dimensions (W x D x H)	6.77 in x 15.35 in x 10.59 in (172 mm x 390 mm x 269 mm)	7.48 in x 14.80 in x 7.20 in (190 mm x 376 mm x 183 mm)
Weight	33 lb (15 kg)	28 lb (13 kg)



USA Headquarters and Western Technical Center

AMADA WELD TECH
1820 S. Myrtle Ave. • Monrovia, CA 91016 US • T: (626) 303-5676
info@amadaweldtech.com • www.amadaweldtech.com
ISO 9001:2015 Certified Company • 24/7 Repair Service: 1-866-751-7378

AMERICAS

AMADA WELD TECH
(Eastern Technical Center)
High Point, North Carolina
T: (941) 544-5762
southsales@amadaweldtech.com

AMADA WELD TECH
(Midwest Technical Center)
Detroit, Michigan
T: (248) 313-3078
midwestsales@amadaweldtech.com

AMADA WELD TECH
(Mexico Office)
El Paso, Texas
T: (915) 881-8765
mxsales@amadaweldtech.com

EUROPE
AMADA WELD TECH
GmbH
Munich, Germany
T: +49-89-839403-0
info@amadaweldtech.eu

ASIA

AMADA CO., LTD.
Isehara, Japan
T: +81-463-96-1111
amd_microweld_sales@amada.co.jp

AMADA WELD TECH
SHANGHAI CO., LTD.
Shanghai, China
T: +86-21-6448-6000
jvu@amadaweldtech.com.cn

AMADA WELD TECH KOREA CO., LTD.
Seoul, Korea
T: +82-31-8015-6810
amadasales@amadaweldtech.co.kr
sales2@amadaweldtech.co.kr

AMADA WELD TECH TAIWAN CO., LTD.
Taipei, Taiwan
T: +886-3-328-3511

AMADA (THAILAND) CO., LTD.
Bangkok, Thailand
T: +66-2170-5900
info@amada.co.th

AMADA VIETNAM CO., LTD.
Ha Noi, Vietnam
T: +84-4-6261-4583
thuyet@amada.co.jp

AMADA WELD TECH
INDIA PVT., LTD.
Bangalore, India
T: +91-80-4092-1749
info@amadaweldtech.in

Specifications subject to change without notice. Copyright© 2025 AMADA WELD TECH INC.
The material contained herein cannot be reproduced or used in any other way without the express written permission of AMADA WELD TECH INC. All rights reserved.

follow us on:



06/25