

Invertec® CV 500

NEW!



Performance - Reliability - Portability

The digitally controlled Invertec® CV500 provides constant voltage (CV) output for heavy duty welding applications and delivers superior arc welding performance and faster response to changes at the arc. It is ideally suited for MIG and Flux Cored arc welding processes and for fabricators mainly using 1.0mm to 1.6mm diameter solid and flux core welding wires. The welding performance is also optimized for use with a wide range of materials such as carbon and stainless steels.

Take advantage of this inverter-based power source to achieve high input power efficiency and power factor ratings for real savings on your electric bills and decrease your welding costs.

The Invertec® CV500 / PWF™ Welding System features an exceptionally wide output control “sweet spot”, which delivers the arc performance and finished weld quality welding operators and supervisors come to expect.

The Invertec® CV500 is ideal for heavy industrial fabrication, such as heavy steel construction and shipbuilding.

Processes

MIG Flux-Cored

Description

Output   Input  

Required Options

Wire Feeder, Interconnection cable Assembly (Includes Control Cable, Welding Cable, Gas Hose), Work Cable with Clamp, Welding Torch, Gas Regulator/ Flowmeter.

Wire Feeder Options

PWF™-2, PWF™-4, PWF™-2 Plus , PWF™-4 Plus, PWF™-4SS and LN™-25 PRO (w/optional interface kit) semiautomatic wire feeders.

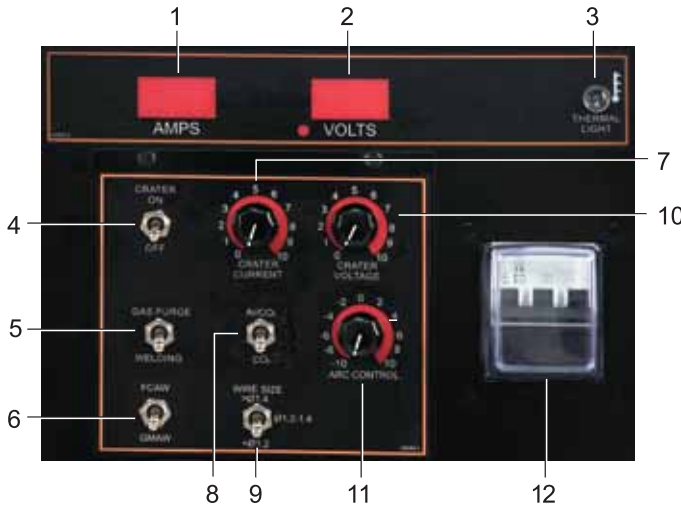
Advantage Lincoln

- Lightweight and Portable - Easy to move and suitable for stacking.
- 87% efficiency with a high 0.95 power factor - Unique design provides dramatically lower power consumption.
- Variable Arc Control - Enables the operator to dial in a “Soft” or “Crisp” arc characteristic to suit each application.
- Fast Arc Response - Yields tight output control and more consistent bead appearance, smooth arc action, and excellent puddle control.
- Excellent Arc Performance - All welding parameters are digitally controlled by advanced software design.
- Digital Meters - Accurate weld parameter readings - Weld parameter readings retained after welding - Auto fault diagnostic display.
- Precision Controls - Enables precise adjustment to control arc stability which results in less spatter and better weld deposits as compared to conventional SCR welders.
- “Made To Last” PC Boards - “Trayed & Potted” PCB’s filled with epoxy, double locked wiring harness connectors, and environmentally protected connectors. Sensibly located to provide maximum protection from the environment.
- Efficient Cooling System - Industrial sealed bearing cooling motor, industrial metal fan blade.
- Tested to Tough IP23 Classifications - Designed for “Real” industrial conditions.
- Easy Access Front Panel - Multi-pin control socket and weld terminals are protected by sturdy doors. Built to last.
- Heavy-Duty Construction - Chassis design with steel side panels.

TECHNICAL SPECIFICATIONS

Product Name	Product Number	Input Voltage	Rated Output Current/Voltage /Duty Cycle	Input Power @ Rated Output (KVA)	Output Range	Dimensions H x W x D (mm)	Net Weight (kg)
Invertec® CV 500	K60033-1	380-415V (±10%)/ 3Ph/50HZ/60HZ	500A/39V/60% 390A/33.5V/100%	22.5 @ 60%	17-39V 60-500A	480 x 350 x 840	56

A CLOSER LOOK



Front Panel

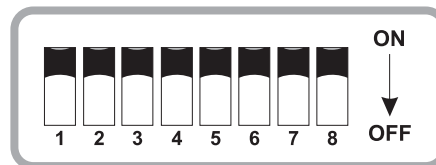
1. Digital Ammeter
 2. Digital Voltmeter
 3. Thermal Shutdown Light
 4. Crater On/Off Switch
 5. Gas Purge/Welding Selection
 6. FCAW/GMAW Switch
 7. Crater Current Control
 8. Mixed Gas/CO₂ Selection
 9. Wire Size Selection
 10. Crater Voltage Control
 11. Arc Control
 12. On/Off Switch
- (Auto fault detection appears on 1. Ammeter & 2. Voltmeter)



Back Panel

1. Input Power Connection Box
2. Input Power Cable Clamp
3. 220V/2A Auxiliary Power Receptacle
4. Fuse and Fuse Holder

“DIP” Switches (Internal)



Number	Position	Function
1	ON	Enable preflow
2	ON	Enable crater Initial mode
3	ON	Enable crater repeat mode
4	ON	Test mode
5		Reserved
6		Reserved
7	ON	Enable long control cable voltage drop compensation
8	ON	WFS calibration

“DIP” switches located on the internal PCB allow you to program the machine to perform as you want!

1. Pre-flow ON/OFF
2. Crater intro mode (for thin metals)
3. Crater repeat
4. Test mode
7. Long control cable voltage drop compensation - up to 60 meters
8. WFS calibration

RECOMMENDED OPTIONS



Work Cable With Clamp

Work Cable With Clamp

Used to connect work piece.

Order:

K60027-50-4M Work cable with clamp, 50mm², 4M

K60027-70-4M Work cable with clamp, 70mm², 4M



Euro Torch Connection Adapter

Euro Torch Connection Adapter

Used as an adapter for Euro connector welding torch.

Order: KP61108-2



Remote Voltage Control

Remote voltage control

Remote output voltage control with power source.

Designed for Invertec® and LN™-25 PRO wire feeder connection.

Order: K60030-8M

K60030-15M

K60030-30M

PWF™ WIRE FEEDERS

	Order No.	Specification
PWF™ Wire Feeder	K60024-3	PWF™ -2. Two feed rolls, insulated hub.
	K60024-4	PWF™ -4. Four feed rolls, insulated hub.
	K60006-3	PWF™ -2 Plus. Two feed rolls, insulated hub, with carrying handle, rear wheels, skid shoes & gun holder.
	K60006-4	PWF™ -4 Plus. Four feed rolls, insulated hub, with carrying handle, rear wheels, skid shoes & gun holder.



PWF™ - 2



PWF™ - 2 Plus



PWF™ - 4



PWF™ - 4 Plus

MIG WELDING TORCH

Equipped with Asia / Euro Connectors

Welding Torch	Product No.	Specification		
	K60007-3	350A @ 60%, CO ₂	300A @ 60%, Ar+CO ₂	3m
	K60007-3E	350A @ 60%, CO ₂	300A @ 60%, Ar+CO ₂	3m Euro Connector
	K60007-4	350A @ 60%, CO ₂	300A @ 60%, Ar+CO ₂	4m
	K60007-4E	350A @ 60%, CO ₂	300A @ 60%, Ar+CO ₂	4m Euro Connector
	K60007-5	350A @ 60%, CO ₂	300A @ 60%, Ar+CO ₂	5m
	K60007-5E	350A @ 60%, CO ₂	300A @ 60%, Ar+CO ₂	5m Euro Connector
	K60008-3	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	3m
	K60008-3E	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	3m Euro Connector
	K60008-3S	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	3m Small Gun Neck
	K60008-4	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	4m
	K60008-4E	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	4m Euro Connector
	K60008-4S	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	4m Small Gun Neck
	K60008-5	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	5m
	K60008-5E	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	5m Euro Connector
	K60008-5S	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	5m Small Gun Neck



Asia Connector Torch



Euro Connector Torch



Small Gun Neck Torch

For torch parts selection, please see publication CE101.EN.

Customer Assistance Policy

The business of The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for advice or information about their use of our products. We respond to our customers based on the best information in our possession at that time. Lincoln Electric is not in a position to warrant or guarantee such advice, and assumes no liability, with respect to such information or advice. We expressly disclaim any warranty of any kind, including any warranty of fitness for any customers particular purpose, with respect to such information or advice. As a matter of practical consideration, we also cannot assume any responsibility for updating or correcting any such information or advice once it has not been given, nor does the provision of information or advice create, expand or alter any warranty with respect to the sale of our products.

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Subject to change - This information is accurate to the best of our knowledge at the time of printing. Please refer to www.lincolnelectric.com.cn for any updated information.



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