

Invertec® CV/CC 500 **NEW!**

Multi-Process - Reliability - Portability

The digitally controlled Invertec® CV/CC 500 provides constant voltage (CV) or constant current (CC) 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.

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.

Heavy fabrication welding operations will appreciate the broad multi-process performance of the CV/CC 500 -- featuring robust stick, MIG and cored wire welding as well as precision Touch-Start TIG performance.

Processes

GMAW, FCAW, GTAW (TIG), SMAW (STICK)

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, TIG Torch, Electrode Holder and Cable, Remote Output Control

Wire Feeder Options

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



Advantage Lincoln

- Lightweight and Portable - easy to move and suitable for stacking.
- A seven position welding process mode selection which enables the operator to select the right welding output for a specific welding application.
- Features Lincoln's latest generation inverter technology for maximum reliability.
- 87% efficiency with a high 0.95 power factor - unique design provides dramatically lower power consumption.
- Touch-Start TIG makes it easy to achieve great arc start with minimal or no tungsten contamination.
- Features full remote and multi-process capability - stick, Touch-Start TIG, MIG, Flux-cored.
- Digital Meters - accurate weld parameter readings - weld parameter readings retained after welding - auto fault diagnostic display.
- 5-500 Amp output range for all recommended processes is low enough for TIG welding on thin sheet metal and robust enough for stick welding with 6mm electrode.
- "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.
- 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.

TECHNICAL SPECIFICATIONS

Product Name	Product Number	Input Voltage	Rated Output Current/Voltage	Max Input Power @ Rated Output (KVA)	Dimensions H x W x D (mm)	Net Weight (kg)
Invertec® CV/CC 500	K60051-1	380-415V (±10%) / 3Ph / 50HZ / 60HZ	MIG: 50A-500A, 16V- 39V TIG: 5A-500A, 10.2V- 30V SMAW: 30A-500A, 21.2V- 40V	23 @ 60%	480 x 350 x 840	56



Front Panel

1. Digital Ammeter
2. Digital Voltmeter
3. Thermal Shutdown Light
4. Crater Current Control
5. Crater Voltage Control
6. 2 Step / 4 Step
7. Hot Start *
8. Output Amps or Output Voltage Control Knob
9. Weld Terminal Output -- Local (LN™ -25 PRO) / PWF™ Wire Feeder/Remote (LN™ -25 PRO) Feeder Control Button
10. Arc Control *
11. Wire Size Selection
12. Seven Welding Process Modes:
 FCAW - GS
 GMAW - Steel, CO₂
 GMAW - Steel, Ar/CO₂
 GMAW - Aluminum
 GMAW - Stainless Steel
 SMAW (STICK)
 GTAW (TIG)
13. Power ON / OFF Switch
 (Auto fault detection appears on 1. Ammeter & 2. Voltmeter)

*1 HOT Start

Regulates the starting current at arc initiation for stick or TIG applications.

Set it to your preference to help overcome cold starts at the beginning of a weld, restarting AWS E7018 or stainless stick electrodes or to improve starting for tie-in welding on tack welds.

Turn it down for thin material or root welding on pipe. Turn it up for thick material or general construction welding.

*2 Variable Arc Control

Adds or reduces inductance (arc energy), particularly for short-circuit transfer mode. Arc Control increases the size and frequency of arc droplet transfer.

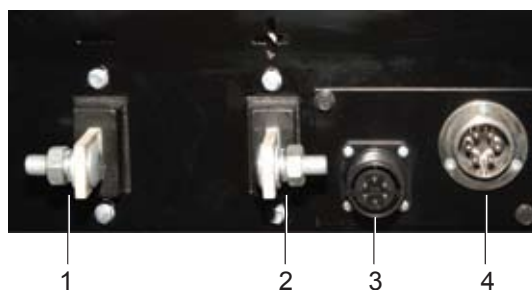
Set it to your preference to help control spatter levels or electrode stubbing as well as to improve weld toe wetting or to obtain a uniform bead shape.

Turn it down to obtain a softer arc or turn it up for a stiffer, more digging arc. For MIG, you can turn it up to aid with welding on open gaps, out-of-position work or for use with 100% CO₂ or 75% Ar / 25% CO₂.



Back Panel

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



Lower Case Connection Panel

1. Negative Output Stud Terminal
2. Positive Output Stud Terminal
3. 6-pin Connector for Remote Control
4. 6-pin Connector for PWF™ Wire Feeder

“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

PWF™ WIRE FEEDERS

PWF™ Wire Feeder	Order No.	Specification
	K60024-3	PWF™ - 2 (Two feed rolls, insulated hub)
	K60024-9	PWF™ - 4 (Four feed rolls, insulated hub)
	K60006-3	PWF™ - 2Plus (Two feed rolls, insulated hub, with carrying handle, rear wheels, skid shoes & gun holder)
	K60006-6	PWF™ - 4Plus (Four feed rolls, insulated hub, with carrying handle, rear wheels, skid shoes & gun holder)
	K60045-2	PWF™ - 4SS (Four feed rolls, enclosed frame, self shielded welding application)
	K60045-4	PWF™ - 4GS (Four feed rolls, enclosed frame, gas shielded welding application)



PWF™ - 2 / - 2Plus



PWF™ - 4 / - 4Plus



PWF™ - 4GS / - 4SS

LN™ -25 PRO WIRE FEEDERS



LN™ - 25 PRO

Product Name	Product Number	Input Power	Power Control
LN™ - 25 PRO Standard	K2613-1	15-110 VDC	Across the Arc
LN™ - 25 PRO Extra Torque	K2613-2	15-110 VDC	Across the Arc
LN™ - 25 PRO Dual Power	K2614-1	15-110 VDC 24-42 VAC	Control Cable or Across the Arc

RECOMMENDED OPTIONS



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



CO₂ Gas Regulator/Flow Meter

Includes a cylinder pressure gauge, CO₂ flow meter and CO₂ heater.

Order: K60012-2

K60012-3



Argon Regulator/Flow Meter

Includes a cylinder pressure gauge, argon flow meter.

Order: K60012-5

RECOMMENDED OPTIONS

MIG WELDING TORCH

Equipped with Asia / Euro Connectors

Welding Torch	Product No.	Specification				
	K60008-3	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	3m	Asia Connector	
	K60008-3E	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	3m	Euro Connector	
	K60008-4	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	4m	Asia Connector	
	K60008-4E	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	4m	Euro Connector	
	K60008-5	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	5m	Asia Connector	
	K60008-5E	500A @ 60%, CO ₂	420A @ 60%, Ar+CO ₂	5m	Euro Connector	



Asia Connector Torch



Euro Connector Torch

STICK OPTIONS:

Electrode cable with holder

For stick welding, includes electrode cable with lug, and electrode holder, 500Amp capacity.

Order: K60057-70-3M 70mm²/3M
K60057-70-5M 70mm²/5M
K60057-70-10M 70mm²/10M



Remote Output Control

Consists of a control box with choice of two cable length. Permits remote adjustment of output.

Order: K857 25ft
K857-1 100ft



TIG OPTIONS:

TIG Torch

WP-26V Two Cable Torch Air-Cooled
200Amp, 2pcs, 12.5 or 25 ft,
60% duty cycle.

Order: K60056-1 12.5ft
K60056-2 25ft



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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