

OPTIMARC[®] CV 500P

NEW!

Best choice for pulse welding of stainless & carbon steel

The digitally controlled OPTIMARC[®] CV 500P provides constant voltage (CV) output for heavy duty welding applications and delivers superior welding performance and faster response to changes at the arc. It is an ideally suited for MIG/MAG and Flux Cored arc welding processes. Pulse welding of carbon and stainless steel could attain high-quality welding performance.

OPTIMARC[®] CV 500P could achieve high input power factor ratings for real savings on your electric bills and decrease your welding costs. The welding system including LWF[™] wire feeder could provide output control with optimum spot to meet the need of arc performance and welding quality from customers.

OPTIMARC[®] CV 500P is ideal power source for industrial manufacturing such as steel structure, engineering machinery, ship manufacturing, petrochemical.



Processes

Pulse MIG / MAG, MIG / MAG, FCAW-GS / SS

Description

Output   Input  

Suitable Wire Feeders

LWF[™]-22, LWF[™]-24 Plus, LWF[™]-4GS

Required Accessories

- Interconnection Cable Assembly (Includes control cable, welding cable and gas hose)
- Work cable Assembly (with earth clamp)
- MIG torch
- Gas regulator/flow meter

Lincoln Advantage

- ★ Synergic function, preset current is matched with voltage automatically
- ★ Unique low power consumption design with 85% efficiency and 0.94 power factor
- ★ Adjustable arc control, welder can choose soft arc or hard arc based on each mode
- ★ Fast arc response, even output control, uniform appearance, superior arc performance and weld penetration control.
- ★ Digital Meters-accurate weld parameter readings-weld parameter readings retained till welding ends-auto fault diagnostic display
- ★ Both voltage and current are pre-settable
- ★ Precise control, comparing with conventional SCR power source, precise control over arc stability could help realize less spatters and better bead.
- ★ "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
- ★ IP 23 Ratings-designed for harsh environment

TECHNICAL SPECIFICATIONS

Product name	Product No.	Input power	Rated output current / Duty cycle	Power input at rated output (kVA)	Output range	Dimensions H*W*D(mm)	Net Weight (KG)
OPTIMARC® CV 500P	K60102-1	380V-415V (±10%) 3/50 or 60 Hz	500A/39V/60% 390A/33.5V/100%	23.5/22@60%	16-39V 50-500A	500 x 350 x 850	45

Feature



Front Panel:

1. CO₂ / Ar or CO₂ option
2. Wire diameter option
3. Welding process mode
FCAW-SS
FCAW-GS
GMAW
PULSE (STEEL)
PULSE (STAINLESS STEEL)
4. Power ON/OFF
5. Thermal indicator
6. 2T/4T output control
7. Digital voltage display
8. Synergic indicator
9. Crater voltage
10. Digital current display
11. Crater current
12. Arc control
13. Negative output terminal
14. Positive output terminal
15. 6-pin feeder connector

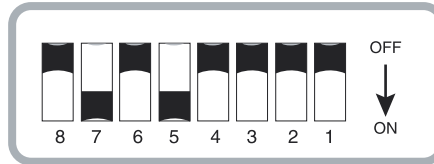
Rear Panel

16. Input power cable bracket
17. Input power protection box
18. Ground cable connection
19. 220V/2A voltage receptacle
20. Heating fuse

Feature

No.	Position	Function
1	ON	Pre-flow
2	ON	Long cable welding mode
3	ON	Crater repeat mode
4	ON	Test mode
5	ON	Synergic
6	ON	Fast run-in
7	ON	24V feeder application
8	ON	Feeder speed calibration

"DIP"



NOTE: DIP switch default setting shown as above

DIP switch located on the internal PCB allow you to program the machine to perform as you want

Recommended Package

Air Cooled Recommended Package

- K60102-2	OPTIMARC® CV 500P Power source
- K60086-2	LWF-24 Plus Wire feeder
- K60110-3	LG501 MIG Gun, Asia adapter, 3M
- K60027-70-3M	Ground cable with earth clamp, 70mm x 3M
- K60010-70-5M	Interconnection cable[air cooled], 70mm x 5M
- K60012-4-220	CO ₂ Gas regulator[heating] - 220V
- 7FKP61240-12	Drive roll Kits, solid wire 1.0/1.2mm

Water Cooled Recommended Package

- K60102-2	OPTIMARC® CV 500P Power source
- K60120-1	LWF-4GS Wire feeder
- K60124-3	TBI 511 Water cooled MIG Gun, Euro adapter, 3M
- K60027-70-3M	Ground cable with earth clamp, 70mm x 3M
- K69047-70-5M	Interconnection cable(water cooled), 70mm x 5M
- K60012-4-220	CO ₂ Gas regulator[heating] - 220V
- 7FKP61240-12	Drive roll Kits, solid wire 1.0/1.2mm
- K60115-1	Welding Trolley
- K60116-1	Water Cooler
- 7FL15710-1	Wire feeder swivel

LWF™ Wire Feeder

	Order No.	Specifcaiton	
LWF™ Wire Feeder	K60084-2	LWF™-22	Two feed rolls, insulated hub Asia Connector
	K60086-2	LWF™-24 Plus	Four feed rolls, insulated hub Asia Connector
	K60120-1	LWF™-4GS	Four feed rolls, insulated hub Euro Connector
Euro gun adaptor	KP61108-2	Connection with Euro plug and Asia feeder	



LWF™-22



LWF™-24 Plus



Euro gun adaptor



LWF™-4GS

INTERCONNECTION CABLES (includes welding cable, control cable and gas hose/water hose)

Product No.	Description	Product No.	Description	Product No.	Description
K60010-50-2M	Air cooled,2M,50mm ²	K60010-70-2M	Air cooled,2M,70mm ²	K69047-70-2M	Water cooled,2M,70mm ²
K60010-50-5M	Air cooled,5M,50mm ²	K60010-70-5M	Air cooled,5M,70mm ²	K69047-70-5M	Water cooled,5M,70mm ²
K60010-50-10M	Air cooled,10M,50mm ²	K60010-70-10M	Air cooled,10M, 70mm ²	K69047-70-10M	Water cooled,10M, 70mm ²
K60010-50-15M	Air cooled,15M,50mm ²	K60010-70-15M	Air cooled,15M, 70mm ²	K69047-70-15M	Water cooled,15M, 70mm ²
K60010-50-20M	Air cooled,20M,50mm ²	K60010-70-20M	Air cooled,20M, 70mm ²	K69047-70-20M	Water cooled,20M, 70mm ²
K60010-50-30M	Air cooled,30M,50mm ²	K60010-70-30M	Air cooled,30M, 70mm ²	K69047-70-30M	Water cooled,30M, 70mm ²
K60010-50-40M	Air cooled,40M,50mm ²	K60010-70-40M	Air cooled,40M, 70mm ²	K69047-70-40M	Water cooled,40M, 70mm ²
KP61156	Control Cable Socket				

MIG WELDING TORCH

	Product No.	Specification			Adaptor
LG351C air cooled MIG Welding Torch	K60111-3	350A @ 65%,CO ₂	350A @ 55%,Ar+CO ₂	3m	Asia
	K60111-4	350A @ 65%,CO ₂	350A @ 55%,Ar+CO ₂	4m	Asia
	K60111-45	350A @ 65%,CO ₂	350A @ 55%,Ar+CO ₂	4.5m	Asia
	K60111-5	350A @ 65%,CO ₂	350A @ 55%,Ar+CO ₂	5m	Asia
	K60111-3E	500A @ 60%,CO ₂	500A @ 50%,Ar+CO ₂	3m	Euro
	K60110-4E	500A @ 60%,CO ₂	500A @ 50%,Ar+CO ₂	4m	Euro
	K60110-45E	500A @ 60%,CO ₂	500A @ 50%,Ar+CO ₂	4.5m	Euro
	K60110-5E	500A @ 60%,CO ₂	500A @ 50%,Ar+CO ₂	5m	Euro
LG360G air cooled MIG Welding Torch	K10413-36-4M	335A @ 60%,CO ₂	335A @ 50%,Ar+CO ₂	4m	Euro
LG501C air cooled MIG Welding Torch	K60110-3	500A @ 60%,CO ₂	500A @ 50%,Ar+CO ₂	3m	Asia
	K60110-4	500A @ 60%,CO ₂	500A @ 50%,Ar+CO ₂	4m	Asia
	K60110-45	500A @ 60%,CO ₂	500A @ 50%,Ar+CO ₂	4.5m	Asia
	K60110-5	500A @ 60%,CO ₂	500A @ 50%,Ar+CO ₂	5m	Asia
	K60110-3E	500A @ 60%,CO ₂	500A @ 50%,Ar+CO ₂	3m	Euro
	K60110-4E	500A @ 60%,CO ₂	500A @ 50%,Ar+CO ₂	4m	Euro
	K60110-45E	500A @ 60%,CO ₂	500A @ 50%,Ar+CO ₂	4.5m	Euro
	K60110-5E	500A @ 60%,CO ₂	500A @ 50%,Ar+CO ₂	5m	Euro
TBI511 Water cooled MIG Welding Torch	K60124-3	500A @ 100%,CO ₂	450A @ 100%,Ar+CO ₂	3m	Euro
	K60124-4	500A @ 100%,CO ₂	450A @ 100%,Ar+CO ₂	4m	Euro
	K60124-5	500A @ 100%,CO ₂	450A @ 100%,Ar+CO ₂	5m	Euro



LG air cooled MIG Welding Torch



TBI Water cooled MIG Welding Torch

OPTIONAL ACCESSORIES



Work cable with Clamp
Used to connect work piece
Order No.:
K60027-50-4M Work cable with clamp, 50mm², 4M
K60027-70-4M Work cable with clamp, 70mm², 4M



CO2, Gas Regulator/Flow Meter
Includes CO₂ flow meter and CO₂ heater
Order No.: K60012-4-220



Argon regulator/Gas flowmeter
Includes cylinder pressure gauge, argon flow meter
Order No.: K60012-5



Water Cooler & Cart
Water Cooler (Coming soon)
Order Number: K60116-1



Cart
Order Number: K60115-1



Tools Box
Order Number: K60117-1

Swivel
Order Number: 7FL15710-1

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.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

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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