

INVERTEC® CC 400-TP

The INVERTEC® CC400-TP is designed and manufactured with the latest digital IGBT technology. This machine has superior arc performance and may be operated in harsh environments due to its robust outer casing.

Rugged, lightweight, portable, full functionality, and easy operation to meet the requirements from all types of different users.

As a professional TIG machine, The INVERTEC® CC400-TP features four welding modes: MMA, Lift TIG ignition, HF TIG ignition and HF TIG Spot ignition. The machine also is capable of 2 or 4 step trigger, HF/LF pulse, parameters memory, variable upslope/downslope current control, and preflow/postflow gas control.

This machine is equipped with variable frequency pulse control to provide an adjustable welding arc. This unique function enables adjustments to best suit the welding application to optimize bead appearance, reducing heat input to control deformation, and increasing travel speed.

The INVERTEC® CC 400-TP is a standard air cooled machine which may be converted to water cooled by adding an optional water cooling tank.



Description

Output **CC** **DC** Input **3** PHASE **50/60** Hz

Application

Manufacturing, Aerospace, Pressure Vessel, Stainless Steel

Processes

TIG, STICK

Features:

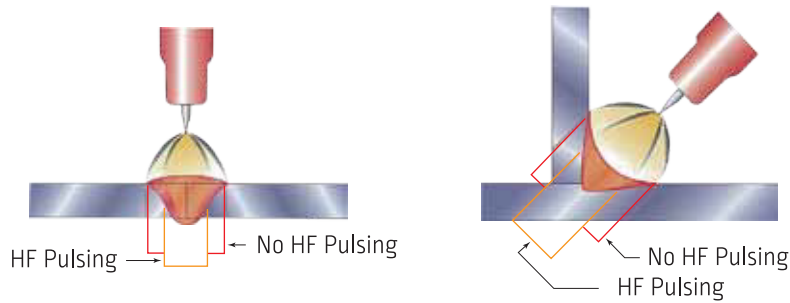
- ★ Advanced inverter technology for superior TIG arc performance
- ★ Numeric display for easy setup of all welding parameters
- ★ Parameter memory with 10 settable locations
- ★ HF, Lift ignition and HF spot welding modes for different welding needs
- ★ Complete TIG parameter presets
- ★ High speed pulse arc adjustment to decrease deformation and increase welding speed
- ★ Superior stick welding performance with arc force and hot start settings
- ★ Completely portable welding performance
- ★ Rugged and durable case design
- ★ IP23 rating for use in harsh environments

Technical Specifications

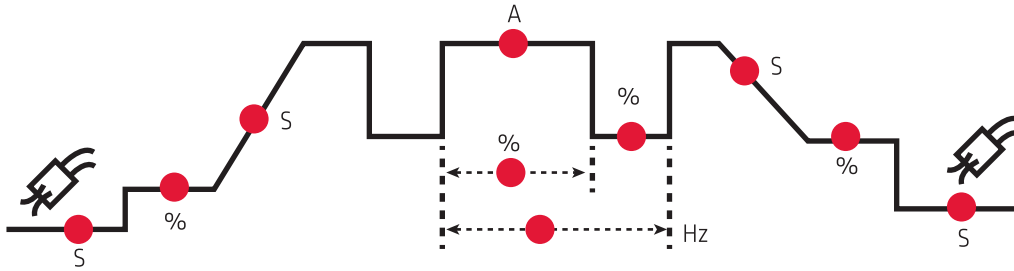
Product	Product Number	Primary Voltage	Mode	Output Range	Rated Output	Power Input at Rated Output	Height x Width x Depth	Net Weight
INVERTEC® CC 400-TP	K60098-3	380V/3Ph	MMA	10-400A 20.4-36V	400A/36V/60% 310/32.4V/100%	17 KW	480x350x730 mm	34 KG
			TIG	5-400A 10.2-26V	400A/26V/60% 310/22.4V/100%			

Technical Description

HF Pulse



Output waveform and parameter list



Mode	Displayed Parameter Name	Parameter	Selectable Value Range	Step	Factory Configuration	Displayed Value	
GTAW	<i>PrE</i>	Preflow	0.1~15S	0.1S	0.5S	Current Selected Value (s)	
	<i>SrR</i>	Start Current	0~100%	1	50%	Current Selected Value (%)	
	<i>UPs</i>	Upslope	0~15S	0.1S	0.5S	Current Selected Value (s)	
	<i>000</i>	Set Current	5~400A	1A	150A	Current Selected Value (A)	
	<i>dUc</i>	Duty Cycle	5%~95%	1	50%	Current Selected Value (%)	
	<i>FrE</i>	Frequency	Not	---	---	---	Current Selected Value (Hz)
			LF	0.2~20Hz	0.1Hz	2Hz	
			HF	10~300Hz	1Hz	30Hz	
	<i>bAc</i>	Background	0~100%	1	50%	Current Selected Value (%)	
	<i>dDw</i>	Downslope	0~15S	0.1S	0.5S	Current Selected Value (s)	
<i>CrR</i>	Crater	0~100%	1	50%	Current Selected Value (%)		
<i>POs</i>	Postflow	0.1~15S	0.1S	0.5S	Current Selected Value (s)		
SMAW	U_0	Set Current	5~400A	1A	150A	Current Selected Value (A)	
	---	Hot Start	0~10	1	0	Current Selected Value (Proportion)	
	---	Arc Force	0~10	1	5	Current Selected Value (Proportion)	
SPORT TIG	<i>000</i>	Set Current	5~400A	1A	150A	Current Selected Value (A)	
	<i>SPD</i>	Spot Time	0.1~5S	0.1S	1S	Current Selected Value (s)	

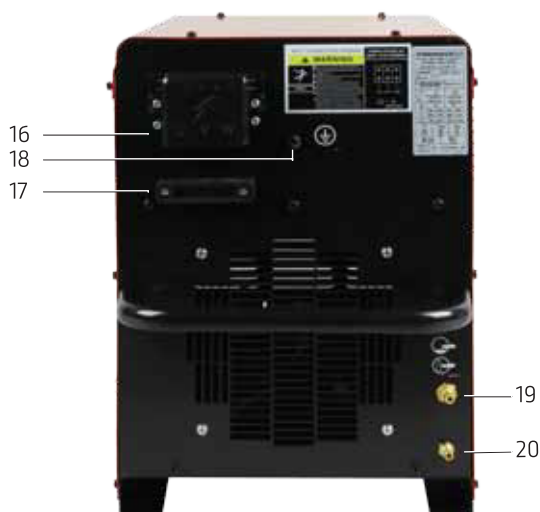
Front Panel



- | | |
|----------------------------------|------------------------------------|
| 1. ON/OFF POWER SWITCH | 8. PARAMETER STORAGE |
| 2. PULSE FREQUENCY SELECTION | 9. PARAMETER TRANSFER |
| 3. CRATER MODE SELECTION | 10. PARAMETER ADJUSTMENT |
| 4. PARAMETER SELECTION | 11. COOLED WATER OUTPUT TERMINAL |
| 5. MODE SELECTION | 12. PROTECTIVE GAS OUTPUT TERMINAL |
| 6. DIGITAL CURRENT DISPLAY METER | 13. NEGATIVE OUTPUT TERMINAL |
| 7. DIGITAL VOLTAGE DISPLAY METER | 14. AMPHENOL SOCKET |
| | 15. POSITIVE OUTPUT TERMINAL |

Rear Panel

- 16. INPUT BOX
- 17. INPUT CABLE HOLDING BRACKET
- 18. GROUND CABLE CONNECTION
- 19. COOLED WATER INPUT TERMINAL
- 20. PROTECTIVE GAS INPUT TERMINAL



Recommended Accessories



Air cooled TIG torch

Air cooled TIG torch

Air cooled TIG torch 200A@60%
Order no:
K60100-4 4m
K60100-8 8m



Water cooled TIG torch

Water cooled TIG torch

Water cooled TIG torch 350A@60%
Order no:
K60101-4 4m
K60101-8 8m



Work cable with clamp

Work cable with clamp

Used to connect work piece, with clamp
Order no:
K60027-50-4M
Work cable with clamp 4m, 50mm²
K60027-70-4M
Work cable with clamp 4m, 70mm²



Argon regulator/Gas flowmeter

Argon regulator/Gas flowmeter

[Inlet G5/8"-14,Outlet M16X1.5/Ø8]
Includes cylinder pressure gauge,
argon flow meter
Order no:
K60012-5



Cart
Order no:K60115-1



Remote output control

Remote output control

Remote control current range
Order no:
K69023-8M 8M
K69023-15M 15M
K69023-30M 30M



Water cooler
Order no:K60116-1



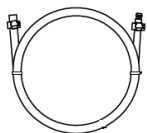
Tool box
Order no:K60117-1



Foot Amptrol

Foot Amptrol

Provides remote arc starting/ending
and current control for TIG welding
6-pin plug
Order no:
K60103-4 4m
K60103-8 8m



Water tube
Order no:KP63324-2

SYSTEM CONFIGURATION-AIR COOLING

Item No.	Description	Remarks
K60098-3	invertec CC 400TP	●
K60100-4	4M WP26 air cooling torch	one out of two
K60100-8	8M WP26 air cooling torch	
K60027-50-3/4/5/8M	50MM2 workpiece cable kits with clamps	one out of many
K60027-70-2/3/4/5/6/10/30M	70MM2 workpiece cable kits with clamps	
K60066-50-3M	50MM2 workpiece cable kits without clamps	
K60066-70-3/10M	70MM2 workpiece cable kits without clamps	
K60115-1	CART	optional
K60117-1	TOOL BOX	optional
7FE4306-5M	8mm gas line with clamp-5M	one out of two
7FE4306-20M	8mm gas line with clamp-20M	
K60012-5	Argon regulator/flowmeter	●

SYSTEM CONFIGURATION-WATER COOLING

Item No.	Description	Remarks
K60098-3	invertec CC 400TP	●
K60101-4	4M water cooling torch	one out of two
K60101-8	8M water cooling torch	
K60027-50-3/4/5/8M	50MM2 workpiece cable kits with clamps	one out of many
K60027-70-2/3/4/5/6/10/30M	70MM2 workpiece cable kits with clamps	
K60066-50-3M	50MM2 workpiece cable kits without clamps	
K60066-70-3/10M	70MM2 workpiece cable kits without clamps	
K60115-1	CART	optional
K60117-1	TOOL BOX	optional
K60116-1	Cooler	●
KP63324-2	Water pipe kits	●
7FE4306-5M	8mm gas line with clamp-5M	one out of two
7FE4306-20M	8mm gas line with clamp-20M	
K60012-5	Argon regulator/flowmeter	●
W000010167	Coolant	●

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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Authorized Distributor: