

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, Pipeline

Processes

TIG,STICK: Basic, Cellulose

Features:

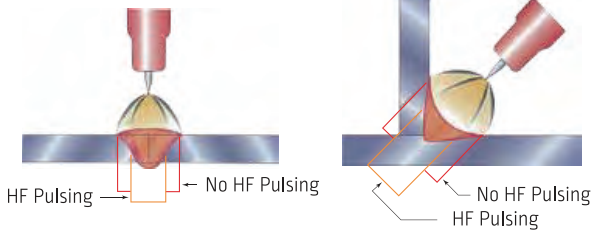
- ★ Advanced inverter technology for superior TIG arc performance
- ★ Numeric display for easy setup of all welding parameters
- ★ Parameter memory with 10 settable locations
- ★ HF, Lift ignition and HF spot welding modes for different welding needs
- ★ Complete TIG parameter presets
- ★ High speed 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
- ★ Fan-as-needed
- ★ Panel lock out is available

Technical Specifications

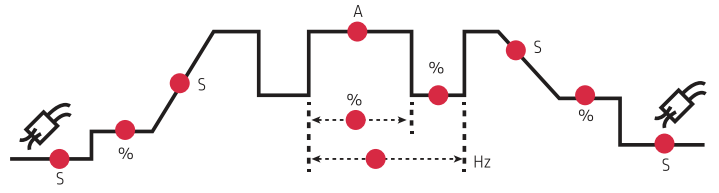
Product	Product Number	Product Features	Primary Voltage	Mode	Output Range	Rated Output	Power Input at Rated Output	Height x Width x Depth	Net Weight
INVERTEC® CC 400-TP	K60098-3	Basic functions	380V/3Ph 50/60 Hz	MMA	10-400A 20.4-36V	400A/36V/100%	17kW	480X350X730	37
	K60098-6	With analog interface function		TIG	4-400A 10.2-26V	400A/26V/100%			
	K60098-9	Simple							

Technical Description

HF Pulse



Output waveform and parameter list

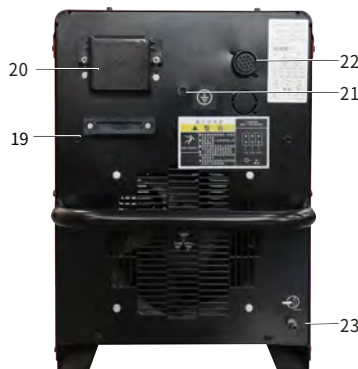


Mode	Displayed Parameter Name	Parameter	Selectable Value Range	Step	Factory Configuration	Displayed Value	
TIG WELD	<i>PrE</i>	Preflow	0.1-15S	0.1S	0.5S	Current Selected Value (s)	
	<i>SFR</i>	Start Current	0-100%	1	50%	Current Selected Value (%)	
	<i>UPS</i>	Upslope	0-15S	0.1S	0.5S	Current Selected Value (s)	
	<i>Cur</i>	Set Current	4-350A	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>dOU</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	0.1-99.9S	0.1S	5.0S	Current Selected Value (s)		
SMAW	U ₀	Set Current	4-400A	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	4-400A	1A	150A	Current Selected Value (A)	
	<i>SP0</i>	Spot Time	0.1-5S	0.1S	1.0S	Current Selected Value (s)	

*It's only available when preset was adjusted on UI under remote analog control was connected.

product Number	fan-as-needed	Water tank control interface	Arc striking line terminal	14 Pin external control interface	Analog feedback signal
K60098-9	●	●	●	●	●
K60098-3	●	●	●	●	●
K60098-6	●	●	●	●	●

Front Panel



- ON/OFF POWER SWITCH
- PULSE FREQUENCY SELECTION
- CRATER MODE SELECTION
- PARAMETER SELECTION
- MODE SELECTION
- DIGITAL CURRENT DISPLAY METER
- DIGITAL VOLTAGE DISPLAY METER
- PARAMETER STORAGE
- PARAMETER TRANSFER
- PARAMETER ADJUSTMENT
- 4 PIN AMPHENOL SOCKET
- 6 PIN AMPHENOL SOCKET
- COOLED WATER INPUT TERMINAL
- PROTECTIVE GAS OUTPUT TERMINAL
- COOLED WATER OUTPUT TERMINAL
- NEGATIVE OUTPUT TERMINAL
- POSITIVE OUTPUT TERMINAL
- ARC STRIKING LINE TERMINAL
- INPUT CABLE HOLDING BRACKET
- INPUT BOX
- GROUND CABLE CONNECTION
- 14 PIN AMPHENOL SOCKET
- PROTECTIVE GAS INPUT TERMINAL

Recommended Accessories



Air cooled TIG torch
Air cooled TIG torch 180A,35% DUTY
Order no: K60075-26-4/8M 4/8m



Water cooled TIG torch
Water cooled TIG torch 320A,100% DUTY
Order no: K60075-18-4/8M 4/8m



Workpiece cables with or without clamps
Work piece cable with clamp,Order no:
K60027-50-3/4/5/8M 50mm² 3/4/5/8 m
K60027-70-2/3/4/5/6/10/30M
70mm² 2/3/4/5/6/10/30 m
No workpiece cable with fixture,Order no:
K60066-50-3M 50mm² 3 m
K60066-70-3/5/10/15M 70mm² 3/5/10/15 m



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



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



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



Tool box
Order no: K60117-2



Quick lock foot
Order no: 7FS33556-3
Note: Necessary accessory for mounting Power
Source without water cooler on cart



Water cooler assembly
Order no: K60116-2S-CNP03



Cart
Order no: K60115-2

SYSTEM CONFIGURATION AIR COOLING

Item No.	Description	Remarks
K60098-3	Invertec CC 400-TP	●
K60075-26-4M	4M WP26 air cooling torch	one out of two
K60075-26-8M	8M WP26 air cooling torch	
K60027-50-3/4/5/8M	Work cable with clamp	one out of many
K60027-70-2/3/4/5/6/10/30M	Work cable with clamp	
K60066-50-3M	Work cable without clamp	
K60066-70-3/5/10/15M	Work cable without clamp	
K60115-2	CART	optional
K60117-2	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	●
K69023-8M	Current remote-control-8M	optional
K69023-15M	Current remote-control-15M	
K69023-30M	Current remote-control-30M	
K60103-4	Foot amptrol-4M	optional
K60103-8	Foot amptrol-8M	
K60057-50-3M	Stick options-3M	optional
K60057-50-4M	Stick options-4M	
K60057-50-5M	Stick options-5M	

SYSTEM CONFIGURATION WATER COOLING

Item No.	Description	Remarks
K60098-3	Invertec CC 400-TP	●
K60075-18-4M	4M water cooling torch	one out of two
K60075-18-8M	8M water cooling torch	
K60027-50-3/4/5/8M	work cable with clamp	one out of many
K60027-70-2/3/4/5/6/10/30M	work cable with clamp	
K60066-50-3M	work cable without clamp	
K60066-70-3/5/10/15M	work cable without clamp	
K60115-2	CART	optional
K60117-2	TOOL BOX	optional
K60116-2S-CNP03	water cooler assembly	●
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	●
K69023-8M	Current remote-control-8M	optional
K69023-15M	Current remote-control-15M	
K69023-30M	Current remote-control-30M	
K60103-4	Foot amptrol-4M	optional
K60103-8	Foot amptrol-8M	optional
K60057-50-3M	Stick options-3M	
K60057-50-4M	Stick options-4M	
K60057-50-5M	Stick options-5M	

INVERTEC CC 400-TP(K60098-4-CNSP1),Includes:

K60098-3	Invertec CC 400-TP
K60075-26-4M	4M WP26 air cooling torch
K60012-5	Argon regulator/flowmeter
K60027-70-3M	Work cable with clamp-3M

Customer Assistance Policy

The business of Lincoln Electric is manufacturing and selling high quality welding equipment, automated welding systems, consumables, and cutting equipment. Our challenge is to meet the needs of our customers, who are experts in their fields, and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or technical information about their use of our products. Our employees respond to inquiries to the best of their ability based on information and specifications provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment, or to provide engineering advice in relation to a specific situation. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or communications. Moreover, the provision of such information or technical information does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or technical information, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose or any other equivalent or similar warranty is specifically disclaimed.

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