

INVERTEC® V350-PRO

Designed Smart. Built Tough.



CC/CV Welding Power Source

NEW!

LINCOLN®
ELECTRIC

INVERTEC® V350-PRO



Designed Smart. Built Tough.

The Invertec V350-PRO is the most powerful inverter power source in its class. Extremely lightweight, the smart design allows it to handle any constant current Stick (SMAW), TIG (GTAW), carbon arc gouging and constant voltage MIG (GMAW) and Flux-Cored welding applications. Advanced inverter technology gives you a very portable power source that can be carried to just about any DC welding job needing between 5 and 425 amps. Built tough. The V350-PRO can endure the rigors of virtually any work environment.

Smart, Tough - the Invertec V350-PRO is also versatile. Two different models have been designed

for two different welding applications. Choose the one that best suits your needs:

- **The Factory Model** has full remote capabilities, 14-pin MS-type connectors, and can accept a variety of Lincoln wire feeders. An intelligent machine with advanced plug-and-play technology allows you to simply plug your wire feeder into your power source. The V350-PRO will make the local or remote control selection automatically. It is designed for high production applications such as in a factory setting. This model is ideal for high production MIG and flux cored welding.

- **The Construction Model** is designed for those welders who need a mobile unit that is lighter and simpler, yet still provides the most outstanding inverter technology. We've eliminated the 14-pin MS-type connectors, eliminating something you don't need. This model works excellently with the LN-25 wire feeder and it costs less!

Both models of the V350-PRO are suited for applications that require an extremely smooth arc, process versatility and portability. Examples include: construction sites, shop and maintenance welding applications, welder training schools, technical training centers and pressure and process piping.

ADVANTAGE LINCOLN

MIG / FLUX CORED

- Superior arc control for soft or crisp arc using different types of wire.
- Advanced plug-and-play wire feeder control for MIG and flux-cored welding.
- The V350-PRO factory model automatically recognizes wire feeders or remote controls that regulate output.
- Just press the mode switch and instantly select Stick, TIG or MIG processes.
- Remote welding output control for Stick, TIG or MIG.
- Recommended for use with the LN-7 GMA, LN-10, DH-10, Cobramatic and LN-25.

TIG

- Smooth, easy to use. Touch-Start TIG™ is standard.
- The Touch-Start TIG design permits the TIG welding arc to be established without high frequency starting techniques. For high frequency starts, use the optional TIG module.

- Optional solenoid kit puts gas control right inside the V350-PRO.

STICK

- Variable Hot Start control produces either a gentle start for thin gauge material or open gap weldments, or a more powerful start for positive penetration on pipe and critical weldments or dirty/rusty steel.
- Variable Arc Force control delivers either a soft or driving arc depending upon your application.
- Two stick modes for the best welding characteristics. “Soft” mode for welding with E7018 and vertical up welding with E6010. “Crisp” mode for vertical down welding with E6010 for API pipe welding applications.

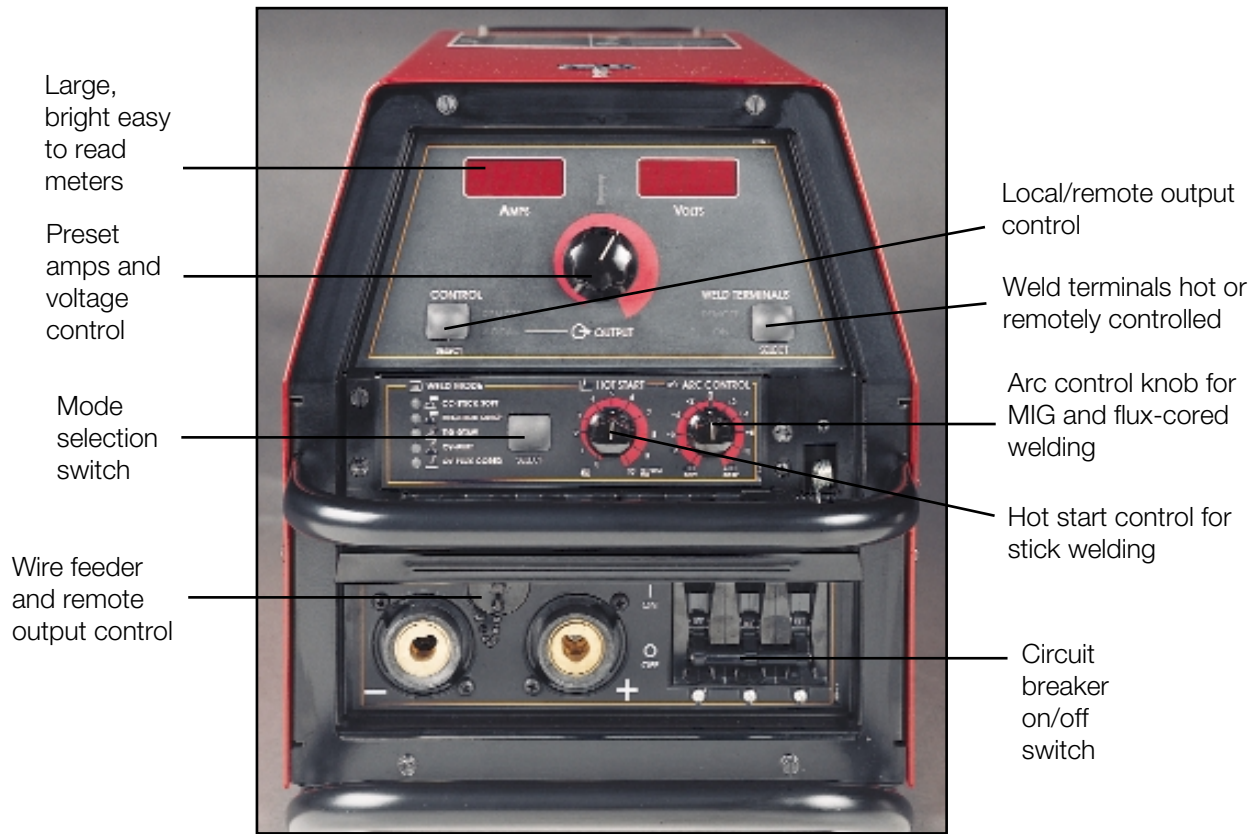
ADDITIONAL FEATURES

- Electronic and thermostatic protection from over-current and over-temperature with thermal indicator light.
- Auxiliary 42 VAC and 115 VAC power for wire feeders.
- Line voltage compensation for maintaining weld consistency, even with line voltage changes of $\pm 10\%$.

- Built tough. A durable case with roll bars and skid for protected transport.
- Compact and lightweight for portable welding applications.
- Bright, large digital amp and volt meters for easy procedure monitoring.
- Presettable digital meters for precise welding procedure control.
- Control panel is simple in design and easy to operate.
- Special F.A.N.™ (Fan-As-Needed) cooling for less energy use and less dust brought into the machine.
- Recessed front panel protects operating controls.
- Magnum Twist-Mate™ output connectors provide easy hook-up with welding cables, and save time when changing polarity (two Twist-Mate cable plugs included).
- Circuit breaker on/off switch.
- 3 year warranty on parts and labor.
- Manufactured under a quality system certified to ISO 9002 requirements.



A CLOSER LOOK



Factory Model Shown

TECHNICAL SPECIFICATIONS

Product Name	Input AC Phase and Frequency	Rated DC Output ⁽¹⁾ Amps/Volts/Duty Cycle	Input Amps at Rated DC Output								Output Range
			200	208	230	380	400	415	460	575	
Invertec® V350-PRO All Models	3 Phase 50/60Hz	350A / 34V / 60%	50	50	42	28	27	26	23	18	Amps 5-425
		275A / 31V / 100%	37	36	31	21	20	19	17	14	
	1 Phase 50/60Hz	350A / 34V / 60%	--	94	85	--	--	54	42	37	
		275A / 31V / 100%	--	70	62	--	--	38	34	27	

(1) Based on a 10 min. period.

ORDERING INFORMATION

Product Number	Description	Weight	Dimensions ⁽¹⁾
K1728-1	Factory Model for all processes. Includes 14-pin MS-type connectors for remote voltage control and for wire feeders requiring control cables.	77 lbs. (35 kg) without input cable	15 x 10.5 x 22 in. (381x 267x559 mm)
K1728-2	Construction Model for all processes without 14-pin MS-type connectors or remote voltage control. Wire welding with LN-25 only.	76 lbs. (34 kg) without input cable	

(1) Includes handle.

PROCESS CAPABILITIES

Process	Electrode	Electrode Polarity	Shielding Gas
Mild Steel MIG	.025 - .052 SuperArc™ L-50 and L-56 .035 - .052 SuperGlide S-3 and S-6	Positive (DC+)	CO ₂ or Ar/ CO ₂ Blend
Stainless MIG	.030 - .045 Blue Max® Wire	Positive (DC+)	Ar/CO ₂ Blend or Tri-Mix
Aluminum MIG	.035-1/16" Super Glaze™ 4043 and 5356 with Cobramatic wire feeder	Positive (DC+)	100% Argon
Mild Steel - FCAW Gas-Shielded Wire	.035 - 5/64" Outershield® Wire	Positive (DC+)	CO ₂ or Ar/ CO ₂ Blend
Mild Steel - FCAW Self-Shielded Wire	.035 - 3/32" Innershield® Wire	Negative or Positive (DC+, DC-)	None Required (Self-Shielded)
Mild Steel SMAW Stick	3/32"-1/4", E6010 - E7018 Fleetweld®, Jetweld® & Excalibur™ Electrodes	Positive (DC+)	None Required (Self-Shielded)
Stainless Steel SMAW Stick	3/32"-3/16" Blue Max® or Red Baron™ Electrodes	Positive (DC+)	None Required (Self-Shielded)
Touch-Start TIG™	All sizes and types steel and stainless	Negative (DC-)	100% Argon or Ar/He Blend
Air Carbon Arc Gouging	5/32" - 5/16" Carbon Electrode	Positive (DC+)	Compressed Air

Typical Factory Welding Systems:

V350-PRO / LN-7 GMA Wire Feeder

Our most popular MIG and flux-cored welding system! Easy connections for TIG welding!

V350-PRO power sourceK1728-1
 LN-7 GMA wire feederK440-2
 Input Cable - 10 ft.K480-10
 .035 Drive RollKP653-035S
 Universal StandK1524-1
 Magnum 300 Gun, 15 ft. . . .K470-2
 Gun Connector KitK466-1
 PTA-17 TIG Torch, 12 ft. . . .K1782-1
 TIG Solenoid KitK1762-1
 Twist-Mate Torch Adapter
 with gas pass throughK1622-1
 TIG Parts KitKP508

V350-PRO / Cobramatic® Wire Feeder

For aluminum welding select the industries best aluminum feeding system - Cobramatic.

V350-PRO power sourceK1728-1
 Cobramatic wire feederK1587-1
 .035 Drive RollKP1594-035
 Cobra Gold Air Cooled Gun
 & Cable AsblyK1589-2

V350-PRO / LN-10 Wire Feeder

Where premium welding performance and control is demanded - this system delivers!

V350-PRO power sourceK1728-1
 LN-10 wire feederK1559-1
 Input Cable - 10 ft.K1503-10
 .035 Drive RollKP1505-035S
 Swivel PlatformK1557-1
 Magnum 300 Gun, 15 ft.K470-2
 Gun Connector KitK466-10

V350-PRO / DH-10 Wire Feeder

For maximum welding flexibility - select the DH-10 dual feeder. Weld with two different types and sizes of wire - with two different welding procedures!

V350-PRO power sourceK1728-1
 DH-10 wire feederK1499-1
 Input Cable - 10 ft.K1503-10
 .035 Drive RollKP1505-035S⁽¹⁾
 Magnum 300 Gun, 15 ft.K470-2⁽¹⁾
 Gun Connector KitK466-10⁽¹⁾

⁽¹⁾ Two Required.

Typical Field Construction Welding Systems:

V350-PRO / LN-25 Wire Feeder

for Outershield® welding:

V350-PRO power sourceK1728-2
 LN-25 with contactor and
 gas solenoidK449
 .045 Drive RollKP653-052C
 Magnum 300 Gun, 15 ft.K470-2
 Gun Connector KitK466-1

V350-PRO / LN-25 Wire Feeder

for Innershield® Welding

V350-PRO power sourceK1728-2
 LN-25 with contactor and
 gas solenoidK449
 5/64" Drive RollKP653-3/32
 Magnum Flux-Cored
 Gun 15', 350 AK126-2

RECOMMENDED OPTIONS

Accessory Kit - Complete kit for stick welding. Includes 35 ft. (10.7m) #2 electrode cable, 30 ft. (9.1m) #2 work cable, headshield, work clamp and electrode holder. **Order K702**



Invertec TIG Solenoid Kit

Mounts inside the back of the V350-PRO. Controls gas flow into the V350-PRO through the Twist-Mate connector. Includes gas hose and solenoid. **Order K1762-1**



Twist-Mate Torch Adapter

For connection of Pro-Torch™ TIG torches (1 piece cable) to power sources *with* gas passing through the Twist-Mate connection. For use with K1762-1.

For air-cooled torches, Order K1622-1

For water-cooled torches, Order K1622-2

Twist-Mate Torch Adapter

For connection of PTA-9 or PTA-17V torches (1 piece cable) to power sources *without* gas passing through the Twist-Mate connection.

Order K960-1



Amptrol™ for TIG welding

Provides 25 ft. (7.6m) of remote current control for TIG welding. (6 pin plug connection).

Hand operated Amptrol™,

for: PTA-9, PTA-17, PTW-20 TIG Torches, **Order K963-1**
for: PTA-26, PTW-18 TIG Torches, **Order K963-2**



Foot operated Amptrol™,

Order K870



Arc Start Switch

For remote TIG arc starting only.

Order K814

Pro-Torch™ TIG Torches

A full line of air-cooled and water-cooled torches available.

Request Lincoln publication E12.150

TIG Module

Portable, high frequency unit with gas valve for TIG welding. Rated at 300 amps / 60% duty cycle.

(Request publication E3.205 for information on control cables).

Order K930-2



Welding Cable Connectors

Twist-Mate™ plug for connecting welding cable to output terminals. Contains one plug.

For 1/0-2/0 cable, Order K852-70

For 2/0-3/0 cable, Order K852-95

NOTE: Machine is shipped with two male Twist-Mate cable plugs.



Remote Output Control

For remote adjustment of output voltage. Consists of control box with 25 or 100 ft. (7.6 or 30m) of four conductor cable and 6 pin MS-type connector.

For 25 ft. (7.6m), Order K857

For 100 ft. (30m), Order K857-1



Adjustable Gas Regulator

Adjustable flow gas regulator for MIG, TIG or FCAW processes.

Order K586-1



V350-PRO ORDER FORM

PRODUCT DESCRIPTION	ORDER NUMBER	QUANTITY	PRICE
V350-PRO - Factory Model	K1728-1		
V350-PRO - Construction Model	K1728-2		
Stick Welding			
Accessory Kit	K702		
TIG Welding			
Pro-Torch™ TIG Torches	See Literature E12.150		
TIG Module	K930-2		
Amptrol™ - Hand Operated			
for: PTA-9, PTA-17, PTW-20, TIG Torches	K963-1		
for: PTA-26, PTW-18, TIG Torches	K963-2		
Amptrol™ - Foot Operated	K870		
Arc Start Switch	K814		
Invertec TIG Solenoid Kit	K1762-1		
Twist-Mate Torch Adapter with gas pass through	K1622-1		
Twist-Mate Torch Adapter without gas pass through	K960-1		
For MIG or Flux-Cored Welding			
LN-7 GMA	See Literature E8.10		
LN-10	See Literature E8.200		
DH-10	See Literature E8.200		
Cobramatic	See Literature E8.300		
LN-25	See Literature E8.100		
MIG and Flux-Cored Guns	See Literature E12.10 and E12.100		
Optional Features			
Adjustable Gas Regulator	K586-1		
Welding Cable Connectors:			
for 1/0-2/0 cable	K852-70		
for 2/0-3/0 cable	K852-95		
Remote Output Control:			
for 25 ft. (7.6m)	K857		
for 100 ft. (30m)	K857-1		

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 customer's 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 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.



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