

# Invertec® V275-S

## For Stick and DC TIG Welding

The Invertec® V275-S power source is ideal for the rigors of the construction site. IP23S rated and equipped with weather resistant features, this Stick and TIG power source is designed for outdoor use. Up to 275 amps of output gives you access to a greater number of stick electrodes, and outstanding 6010 performance.

The Invertec® V275-S is available as a single unit or mounted in 4-pack or 8-pack racks for convenience on the construction site. Standard features such as selectable Hot Start and adjustable Arc Force provide a level of arc control you won't find anywhere else in this class of machine.

### Processes

Stick, TIG, Gouging



Note: Plugs not included with Tweco® model.

Output



Input



### Advantage Lincoln

- Truly outstanding E6010 and E7018 performance using up to 7/32" diameter electrodes that enables both whip and drag techniques for a variety of construction and fabrication applications.
- Touch-Start TIG® design permits the DC TIG welding arc to be established without high frequency starting.
- Air Carbon Arc cutting and gouging with up to 3/16" (4.8 mm) diameter carbon electrode.
- Adjustable Arc Force and a two-position Hot Start switch provide a level of arc control you won't find in comparable machines.
- No de-rating on single phase as with competitive models – get the same performance using single or three phase input.
- Aluminum chassis, protective boots on switches and potted and trayed PC boards for extreme environmental protection.
- Manufactured under a quality system certified to ISO 9001 requirements and ISO 14001 environmental standards.
- Three-year warranty on parts and labor. Two-year extended warranty available in U.S.

### TECHNICAL SPECIFICATIONS

Product Name	Product Number	Input Power	Rated Output Current/ Voltage/Duty Cycle	Input Current @ Rated Output	Output Range	Dimensions H x W x D inches (mm)	Net Weight lbs (kg)
Invertec® V275-S	K2269-1	208/230/460/575/3/60	275A/31V/35%	38/37/19/16	5-275A	13.6 x 9.0 x 20.25 (345 x 229 x 514)	54.5 (24.7)
Invertec® V275-S (Tweco®) <sup>(1)</sup>	K2269-3		250A/30V/60%	34/33/17/14			
			200A/28V/100%	27/25/13/11			
			275A/29-31V/35%	68/67/38/31			
		220/380/400/415/440/3/50	250A/30V/60%	63/62/33/27			
			200A/28V/100%	49/48/26/21			
		220/380/400/415/440/1/50	250A/30V/35%	32/20/19/18/17			
			200A/28V/100%	25/15/15/14/13			
		220/380/400/415/440/1/50	250A/30V/35%	63/42/40/38/36			
			200A/28V/100%	48/32/30/29/27			

NEW!

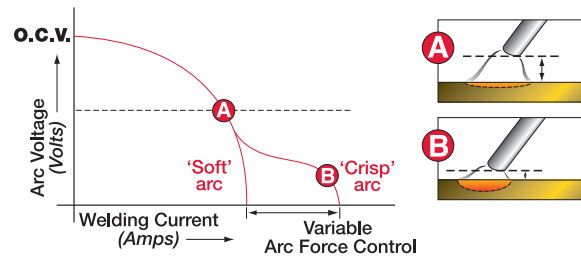
<sup>(1)</sup> Tweco® is a registered trademark of Thermadyne.

## A CLOSER LOOK

### PERFORMANCE

- Truly outstanding E6010 and E7018 performance that enables both whip and drag techniques for a variety of construction and fabrication applications.
- Selectable Hot Start – Turn it off for thin material or flip it on to get the extra starting amperage you need for thick, rusty or dirty material.
- Variable Arc Force – Dial in the “soft” or “crisp” arc you want as conditions require. A crisper arc can be used to increase penetration or reduce electrode sticking on some applications.
- Touch-Start TIG™ design permits the TIG welding arc to be established without high frequency starting.

### ARC FORCE CONTROL



### FEATURES

- Full-featured MS-style remote capabilities – variable output control using a remote control device such as a foot pedal or hand control.
- 208/230/400/460/575 input volt settings – all-in-one machine. No need to buy separate models for added voltage.
- No single phase de-rating.
- Easy access reconnect panel – two quarter-turn captive screws. No need to remove several panels or machine case to switch input voltages.
- Recessed Control Panel – Provides optimal operating angle and helps protect controls from damage.

### Key Controls



- A** Preset Output Amps Control
- B** "On" Light
- C** Hot Start Control
- D** On/Off Switch
- E** Negative and Positive Output Terminals (Twist-Mate™ or Tweco®)
- F** Remote Output Control Receptacle - 6-Pin
- G** Arc Control Knob
- H** Mode Selection Switch (Stick/Touch-Start TIG®)
- I** Local/Remote Output Control
- J** Thermal Protection Indicator

### WHAT'S INCLUDED

#### K2269-1, V275-S Includes:

- Invertec® V275-S (Tweco®)
- Input Power Cable, 10 ft.
- Twist-Mate™ Cable Plugs (K852-70), quantity 2

#### K2666-1, V275-S (Tweco®) 4-Pack Inverter Rack Includes:

- V275-S Tweco® Model power sources (K2269-3), quantity 4
- Inverter Rack

#### K2666-2, V275-S (Tweco®) 8-Pack Inverter Rack Includes:

- V275-S Tweco® Model power sources (K2269-3), quantity 8
- Inverter Rack
  - An ideal system to group several inverter power sources in an industrial portable package. Entire system meets National Electrical Code (NEC) standards.



K2666-2, V275-S (Tweco®)  
8-Pack Inverter Rack

## A CLOSER LOOK

### QUALITY AND RELIABILITY

- Aluminum chassis for durability and corrosion resistance.
- Protective boots on switches for outdoor use.
- Potted and trayed PC Boards – encapsulated and protective trays provide best-in-class environmental protection.



- Fan-as-needed™ (F.A.N.) minimizes thermal cycling of internal machine components, minimizes internal contamination when not welding, and saves on electricity costs.
- Manufactured under a quality system certified to ISO 9001 requirements and ISO 14001 environmental standards.
- Three-year warranty on parts and labor.

## RECOMMENDED OPTIONS

### GENERAL OPTIONS



**Caster Kit**  
Four caster kit for Inverter Racks.  
**Order K2665-1**



**Twist-Mate™ Cable Plug**  
For connecting welding cable to output terminal receptacles. For 1/0-2/0 (50-70 mm<sup>2</sup>) cable.  
**Order K852-70**



**Twist-Mate™ Cable Plug**  
For connecting welding cable to output terminal receptacles. For 2/0-3/0 (70-95 mm<sup>2</sup>) cable.  
**Order K852-95**



**Twist-Mate™ Cable Receptacle**  
For connecting welding cable to Twist-Mate cable plug. For 1/0-2/0 (50-70 mm<sup>2</sup>) cable.  
**Order K1759-70**



**Twist-Mate™ Cable Receptacle**  
For connecting welding cable to Twist-Mate cable plug. For 2/0-3/0 (70-95 mm<sup>2</sup>) cable.  
**Order K1759-95**

### STICK OPTIONS



**Accessory Kit**  
For stick welding. Includes 35 ft. (10.7 m) 2/0 electrode cable with lug, 30 ft. (9.1 m) 2/0 work cable with lugs, headshield, filter plate, cover plate, work clamp and electrode holder. 400 amp capacity.  
**Order K704**



**Accessory Kit**  
For stick welding. Includes 20 ft. (6.1 m) #6 electrode cable with lug, 15 ft. (4.6 m) #6 work cable with lugs, headshield, work clamp, electrode holder and sample pack of mild steel electrode. 150 amp capacity.  
**Order K875**



**Remote Output Control**  
Consists of a control box with choice of two cable lengths. Permits remote adjustment of output. 6-pin connection.  
**Order K857** for 25 ft. (7.6 m) or **K857-1** for 100 ft. (30 m)

### TIG OPTIONS



**17V Air-Cooled TIG-Mate™ Starter Pack**  
Get everything you need for TIG welding in one complete easy-to-order kit packaged in its own portable carrying case. Includes: PTA-17V Ultra-Flex™ torch, parts kit, Harris flowmeter/regulator, 10 ft. (3.0 m) gas hose, and work clamp and cable.  
**Order K2265-1**



**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**



**Foot Amptrol®**  
Provides 25 ft. (7.6 m) of remote output control for TIG welding (6 pin plug connection).  
**Order K870**



**Hand Amptrol®**  
Provides 25 ft. (7.6 m) of remote current control for TIG welding. (6 pin plug connection). Velcro straps secure torch.  
**Order K963-3** (One size fits all Pro-Torch® TIG Torches.)

**INVERTEC® V275-S ORDER FORM**

PRODUCT DESCRIPTION	ORDER NUMBER	QUANTITY	PRICE
<b>INVERTEC® V275-S</b>	<b>K2269-1</b>		
<b>INVERTEC® V275-S Tweco® Model</b>	<b>K2269-3</b>		
<b>V275-S (Tweco®) 4-Pack Inverter Rack</b> - includes 4 Invertec® V275-S Tweco® model power sources	<b>K2666-1</b>		
<b>V275-S (Tweco®) 8-Pack Inverter Rack</b> - includes 8 Invertec® V275-S Tweco® model power sources	<b>K2666-2</b>		
<b>RECOMMENDED GENERAL OPTIONS</b>			
Caster Kit (For K2666-1, K2666-2)	K2665-1		
Twist-Mate™ Cable Plug			
- 1/0 - 2/0 (50-70 mm <sup>2</sup> ) Cable	K852-70		
- 2/0 - 3/0 (70-95mm <sup>2</sup> ) Cable	K852-95		
Twist-Mate™ Cable Receptacle			
- 1/0 - 2/0 (50-70mm <sup>2</sup> ) Cable	K1759-70		
- 2/0 - 3/0 (70-95mm <sup>2</sup> ) Cable	K1759-95		
<b>RECOMMENDED STICK OPTIONS</b>			
Accessory Kit (400 amps)	K704		
Accessory Kit (200 amps)	K875		
Remote Output Control			
- 25 ft. (7.6m)	K857		
- 100 ft (30.5m)	K857-1		
<b>RECOMMENDED TIG OPTIONS</b>			
17V Air-Cooled TIG-Mate™ Starter Pack	K2265-1		
Twist-Mate™ Torch Adapter	K960-1		
Foot Amptrol®	K870		
Hand Amptrol®	K963-3		
	<b>TOTAL:</b>		

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