

REEFLEX®

INVERTER WELDER RANGE

REEFLEX 160

220 Volt – 160 Amp
(60% Duty Cycle)



Designed and
manufactured
in South Africa

100 % duty
cycle @
maximum
output



REEFLEX 160

220 Volt – 160 Amp

REEFLEX 200

220 Volt – 200 Amp
380 Volt – 200 Amp
525 Volt – 200 Amp

DC TIG
welding

BUILT-IN VOLTAGE REDUCER

REEFLEX 300

380 Volt – 300 Amp
525 Volt – 300 Amp



Thermal &
input voltage
protection

Dual voltage
available



REEFLEX 400

380 Volt – 400 Amp
525 Volt – 400 Amp

REEFLEX 500

Also Available

**2 YEAR
WARRANTY
ON ALL MODELS**



REEFLEX®
WELDING

MAIN BENEFITS

The Reflex range of inverter welders are lightweight, fully portable, heavy duty industrial DC welders for coated electrode and TIG welding. This makes them absolutely ideal for maintenance and production applications. A built-in voltage reducing device is also available for added safety.



PRINCIPLE OF OPERATION

The Reflex inverters utilise cutting-edge technology in combination with the latest power electronic switching devices available, to convert a high voltage DC BUS down to the required welding voltage. The high switching frequency provides an output dynamic response in excess of 10 kHz, which enables the converter to control the welding arc with great precision. The DC output current is controlled by means of feedback, and sufficient current boost is added to optimise the welding process.



WELDING PERFORMANCE

The extremely high output dynamic response, precise control of the output current and sufficient striking voltage ensures easy striking, low spatter, and very smooth running. These features simplify the welding process significantly, and near-perfect welding is obtained with most electrode types.

	REEFLEX 160		REEFLEX 200			REEFLEX 300		REEFLEX 400		REEFLEX 500		
PRIMARY												
MAINS VOLTAGE (50/60Hz)	220V 1 phase ±15%	220V 1 phase ±15%	220V 1 phase ±15%	380V 3 phase ±15%	525V 3 phase ±15%	380V 3 phase ±15%	525V 3 phase ±15%	380V 3 phase ±15%	525V 3 phase ±15%	380V 3 phase ±15%	525V 3 phase ±15%	
INPUT CURRENT	28A	28A	33A	10A per phase	7A per phase	15A per phase	12A per phase	28A per phase	20A per phase	40A per phase	30A per phase	
DUAL VOLTAGE OPTION	No		No	No		Yes		Yes		Yes		
SECONDARY												
DC WELDING CURRENT	160A/27V		200A/28V			300A/32V		400A/36V		500A/44V		
DUTY CYCLE AT MAXIMUM OUTPUT	60 %	100 %	100 %			100 %		100 %		100 %		
CURRENT RANGE	16 – 160A		20 – 200A			30 – 300A		40 – 400A		50 – 500A		
OPEN CIRCUIT VOLTAGE	60V	15/60V	15/60V			15/60V		15/65V		15/80V		
CONSTANT CURRENT FOR DC TIG WELDING LIFT ARC	Yes	Yes	Yes			Yes		Yes		Yes		
	No	Yes	Yes			Optional		Optional		Optional		
ARC FORCE	Standard	Adjustable	Adjustable			Adjustable		Adjustable		Adjustable		
MAX ELECTRODE DIAMETER	4 mm	4 mm	5 mm			6,3 mm		Maximum		Maximum		
COOLING	Fan	Fan	Fan			Fan		Fan		Fan		
DIMENSIONS	Height	220 mm	220 mm	220 mm			240 mm		270 mm		300 mm	
	Width	145 mm	200 mm	200 mm			200 mm		230 mm		240 mm	
	Length	320 mm	380 mm	380 mm			480 mm		510 mm		650 mm	
WEIGHT	7 kg	9 kg	10 kg			17 kg		23 kg		35 kg		
BUILT-IN VOLTAGE REDUCER OPTION	No	Yes	Yes			Yes		Yes		Yes		

Manufactured by

REEFLEX®
WELDING

Reflex Welding (Pty) Ltd. Reg No 2009/000948/07
Manufacturers of welding machines since 1981

PO Box 1035 Ferndale 2160
83 Langwa Street Strydom Park Randburg
Tel +27 11 792-3832 Fax +27 11 793-5457
e-mail: sales@reflex.co.za
www.reflex.co.za

REEFLEX[®]

MULTI-PROCESS DC INVERTER WELDER RANGE

CC/CV

STICK

LIFT TIG

MIG/MAG

GOUGE

Designed and
manufactured
in South Africa

BUILT-IN VOLTAGE REDUCER

Thermal &
input voltage
protection

Dual voltage
available

Trolley available

OPTIONAL
Remote voltage
control on
wire feeder

**2 YEAR
WARRANTY**

220 Amp

300 Amp

400 Amp

500 Amp

700 Amp

REEFLEX[®] *Multi*



REEFLEX[®]
WELDING

MAIN BENEFITS



The **REEFLEX® Multi** range of DC inverter welders are multi-process machines, giving the user ultimate flexibility, performance and portability. The output characteristics are changed between CC and CV by the flick of a switch, giving excellent welding on STICK welding, easy arc starting with LIFT TIG and low spatter welding with MIG (solid or fluxcored wire) or MAG welding. Having 100 % duty

cycle means that these machines can be used for maintenance and production applications. Adjustable ARC FORCE for CC, and adjustable INDUCTANCE for CV enables each process to be fine tuned to obtain optimum results.

Standard on all **REEFLEX® Multi** machines are separate digital VOLT and AMP meters which continuously indicate output voltage and output

current, thereby enabling the operator to be in full control of all welding parameters.

The dual voltage models have built-in protection circuitry, eliminating any damage to machine or wire feeder if connected to the wrong supply voltage.

		220 AMP	300 AMP		400 AMP		500 AMP		700 AMP	
PRIMARY										
INPUT VOLTAGE		220V 1 phase ±15%	380V 3 phase ±15%	525V 3 phase ±15%	380V 3 phase ±15%	525V 3 phase ±15%	380V 3 phase ±15%	525V 3 phase ±15%	380V 3 phase ±15%	525V 3 phase ±15%
INPUT CURRENT		34A	15A per phase	12A per phase	28A per phase	20A per phase	40A per phase	30A per phase	53A per phase	38A per phase
DUAL VOLTAGE OPTION		No	Yes		Yes		Yes		Yes	
SECONDARY										
DC WELDING CURRENT		220A/28V	300A/32V		400A/36V		500A/40V		700A/44V	
OPEN CIRCUIT VOLTAGE		60V	60V		70V		80V		85V	
DUTY CYCLE		100 %	100 %		100 %		100 %		60 % @ 700A/100 % @ 600A	
CC CURRENT RANGE		20 – 220A	30 – 300A		40 – 400A		50 – 500A		70 – 700A	
CV VOLTAGE RANGE		14 – 28V	14 – 32V		14 – 36V		15 – 40V		15 – 44V	
CC LIFT TIG		Yes	Yes		Yes		Yes		Yes	
CC ARC FORCE		Yes	Yes		Yes		Yes		Yes	
CV INDUCTANCE		Yes	Yes		Yes		Yes		Yes	
DIGITAL DISPLAY CURRENT		Yes	Yes		Yes		Yes		Yes	
VOLTAGE		Yes	Yes		Yes		Yes		Yes	
*	OUTPUT FOR WIRE FEEDER	24V AC/200VA	24V AC/200VA		24V AC/200VA		24V AC/200VA		24V AC/200VA	
CONNECTION FOR REMOTE		Standard	Standard		Standard		Standard		Standard	
RODS/WIRE SIZES	ARC	2,5 – 5,0 mm	2,5 – 6,3 mm		2,5 – Maximum		2,5 – Maximum		2,5 – Maximum	
	MIG	0,8 – 1,0 mm	0,8 – 1,2 mm		0,8 – 1,6 mm		0,8 – 1,6 mm		0,8 – 1,6 mm	
	TIG	1,6 – 3,2 mm	1,6 – 3,2 mm		1,6 – 3,2 mm		1,6 – 3,2 mm		1,6 – 3,2 mm	
GOUGING		–	–		6,5 mm		9,5 mm		12 mm	
BUILT-IN VOLTAGE REDUCER		Yes	Yes		Yes		Yes		Yes	
OVER/UNDER VOLTAGE PROTECTION		Yes	Yes		Yes		Yes		Yes	
OVER TEMPERATURE PROTECTION		Yes	Yes		Yes		Yes		Yes	
COOLING		Fan	Fan		Fan		Fan		Fan	
DIMENSIONS	Height	310 mm	310 mm		310 mm		350 mm		370 mm	
	Width	265 mm	265 mm		265 mm		350 mm		380 mm	
	Length	590 mm	590 mm		590 mm		755 mm		810 mm	
WEIGHT		30 kg	35 kg		39 kg		55 kg		60 kg	

*OTHER VOLTAGES AVAILABLE ON REQUEST

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REEFLEX®

4 WHEEL DRIVE WIRE FEEDER



Designed and
manufactured
in South Africa

4 Geared
Drive Rollers

Powerful
120 W Motor

24V AC Input



REEFLEX®
WELDING

FEATURES



- ▶ Very robust 120 W DC Motor and Drive Gears
- ▶ Very accurate speed control – superb welding
- ▶ Ramp-up control – controlled acceleration
- ▶ Gas pre-flow and postflow built-in – factory adjustable
- ▶ Burn back control
- ▶ Wire sizes from 0,6 mm ø to 3,2 mm ø
- ▶ Takes all sizes and types of MIG/MAG wire e.g. mild steel, stainless, aluminium, flux-core etc.
- ▶ Power and Trigger LED indicators
- ▶ 2 Year guarantee
- ▶ 2T/4T trigger configuration selectable
- ▶ Gas purge function
- ▶ Inch control
- ▶ Robust wheels
- ▶ Trolley available



Designed and
Manufactured in
South Africa for
harsh african
welding conditions

TECHNICAL SPECIFICATIONS

INPUT		
INPUT VOLTAGE		24V AC
INPUT CURRENT		6A max
WEIGHT		20 kg
DIMENSIONS	HEIGHT	340 mm
	LENGTH	550 mm
	WIDTH	360 mm Including wheels

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REEFLEX®

LOCO BATTERY WELDERS

42 CELL

60 CELL



Designed and
manufactured
in South Africa

100 % duty
cycle @
maximum
output

DC TIG
welding

**BUILT-IN
VOLTAGE
REDUCER**

Thermal &
input voltage
protection



160 Amp

200 Amp

300 Amp



REVERSE POLARITY PROTECTION

**2 YEAR
WARRANTY
ON ALL MODELS**



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WELDING PERFORMANCE

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		42 CELL			60 CELL		
PRIMARY		160A	200A	300A	160A	200A	300A
INPUT VOLTAGE		84 VDC ±15%	84 VDC ±15%	84 VDC ±15%	120 VDC ±15%	120 VDC ±15%	120 VDC ±15%
INPUT CURRENT		60A max	75A max	120A max	40A max	50A max	80A max
REVERSE POLARITY PROTECTION		Yes	Yes	Yes	Yes	Yes	Yes
SECONDARY							
DC WELDING CURRENT		160A/27V	200A/28V	300A/32V	160A/27V	200A/28V	300A/32V
DUTY CYCLE AT MAXIMUM OUTPUT		100 %	100 %	100 %	100 %	100 %	100 %
CURRENT RANGE		16 – 160A	20 – 200A	30 – 300A	16 – 160A	20 – 200A	30 – 300A
OPEN CIRCUIT VOLTAGE		15/60	15/60	15/60	15/60	15/60	15/60
CONSTANT CURRENT FOR DC TIG WELDING		Yes	Yes	Yes	Yes	Yes	Yes
ARC FORCE		Yes	Yes	Yes	Yes	Yes	Yes
MAX ELECTRODE DIAMETER		4 mm	5 mm	6,3 mm	4 mm	5 mm	6,3 mm
COOLING		Fan	Fan	Fan	Fan	Fan	Fan
DIMENSIONS	HEIGHT	220 mm	220 mm	240 mm	220 mm	220 mm	240 mm
	WIDTH	200 mm	200 mm	200 mm	200 mm	200 mm	200 mm
	LENGTH	380 mm	380 mm	480 mm	380 mm	380 mm	480 mm
WEIGHT		10 kg	10 kg	17 kg	10 kg	10 kg	17 kg
BUILT-IN VOLTAGE REDUCER		Yes	Yes	Yes	Yes	Yes	Yes

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