



## RANGER 600

The Heavy Duty Thyristorized MIG/MAG Welding Rectifier



### SALIENT FEATURES

- Most reliable and dependable thyristor based power source for high quality MIG / MAG semi automatic manual and semiautomatic mechanized welding applications
- Hex phase, full wave full control bridge rectification circuit reduces ripple in the welding output - resulting in spatter free welding
- Special design and construction of Transformer - resulting faster response time and excellent Arc dynamics
- Light weight, Compact design of power source, wire feeder and Torch
- Adjustment of Crater Voltage, Crater Current possible with regulating pots provided on the front panel
- Globule detach technique keeps the tip ready for next welding cycle
- Choice of different types of wire feeder motors and welding torches available for different industrial applications
- Quick release wire feed roller mechanism enables operator to change the wire spool quickly, minimizing the unproductive time and thus increasing the productivity on the shop floor
- Power source protected from Over Voltage, Under Voltage supply, Single phasing, Over load / overheating and very high secondary short circuit current
- Suitable for ALL position MIG / MAG welding applications - both within shop-floor as well as at open yards and project sites (with due protection or shield against windy air)
- Suitable for wide range of metals like Carbon Steel, Stainless Steel, Aluminium and its alloys, with appropriate or recommended consumable
- Specifically designed for heavy duty, structural welding, machine building applications

### SPECIFICATIONS

Technical Specifications	Unit	TCVR 600 (Ranger 600)
Characteristics Control		Constant Potential Thyristorized Phase Control
<b>Input</b>		
Input Supply:		
Voltage	Volts, Ac	415 , +10%, -10%
Phase	No	3
Frequency	Hz	50/60

Cont.

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Cont.

Maximum Input Current	Amps, AC	55
Input Kva @ 100% Duty Cycle	KVA	31.7
Input Kva @ 60% Duty Cycle		40
<b>Output</b>		
Open Circuit Voltage	Volts, DC	65 V MAXIMUM
Welding Current Range	Amps, DC	60-600
Welding Current @ 100% duty cycle	Amps, DC	465
Welding Current @ 60% duty cycle	Amps, DC	600
<b>General</b>		120% of the set current
Ingress Protection		IP23
Cooling	Class	Forced Air
Insulation	Type	H
Welding Output Terminals	Class	Stud Type For Lug Type Cable Connections
Dimensions (L X W X H)	mm	980 x 550 x 960
Weight (Approx)	Kg	230
<b>Wire Feeder</b>		120% of the set current
Weight (without spool)	Kg	16 Kg Approx
Dimensions (L X W X H)	mm	563X230X410
Suitable for wire spool capacity	Kg	15 Kg
Wire Feeder Fitted with Rollers	mm	1.2/1.6 for Solid Wire 2 No.
Wire Feeder Motor Voltage	V DC	42 V DC
Wire Driver Motor	Type	Permanent Magnet DC Type
Wire Roll Driver	No	Four
Wire Feed Speed	mtr/min	1.5 to 18
Suitable for Wire sizes	mm	0.8,1,1.2,1.6

- **Warranty:** One year from the date of commissioning. ADOR WELDING LIMITED warrants that all new equipment sold from Plant/Area Offices / Authorised Distributors are free from defects in materials and workmanship and will perform in full accordance with applicable specifications.
- In view of continuous development, ADOR WELDING LIMITED reserves the right to modify/change the design and/or the specifications without any prior notice.
- Backed by dedicated customer care package.