



RANGER 600 MULTI



The Heavy Duty Multipurpose Thyristorized Welding Rectifier for MMA / MIG / TIG / GOUGING Applications



SALIENT FEATURES

- Heavy duty Thyristorized Multipurpose Welding Rectifier with Double-star configuration
- Suitable for multi process welding applications like SMAW / GMAW / FCAW / GTAW and GOUGING processes 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 application
- Rugged construction -most reliable and dependable thyristor based power source for high quality welding processes
- Hex- phase, full wave full control bridge rectification circuit reduces ripple in the welding output- resulting spatter-free welding
- Automatic Globule Detachment technique keeps the tip ready for next welding cycle
- Choice of 2 roll and 4 roll wire-feeders and different torches available for different industrial applications
- Quick release wire feed roller mechanism enables operator to change the wire spool quickly, minimising 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

SPECIFICATIONS

Technical Specifications	Unit	TCCVR 600
Characteristics Control	CC/CV	Constant Potential Thyristorized Phase Control
Input		
Input Supply:		
Voltage	Volts, Ac	415 , +10%, -10%
Phase	No	3
Frequency	Hz	50/60
Maximum Input Current	Amps, AC	55
Recommended Switch Fuse Rating	Amps, AC	60
Input Kva @ 100% Duty Cycle	KVA	31.7
Input Kva @ 60% Duty Cycle		40

Cont.

RANGER 600 MULTI



The Heavy Duty Multipurpose Thyristorized Welding Rectifier for
MMA / MIG / TIG / GOUGING Applications

Cont.

Output		
Open Circuit Voltage	Volts, DC	80 V (CC Mode) 65 V MAXIMUM
Welding Current Range	Amps, DC	20-600 (CC Mode) 75-600 (CV Mode)
Welding Current (40°, 10 Min duty cycle) °°°		
@ 60% duty cycle	Amps, DC	600
@ 100% duty cycle	Amps, DC	465
General		
Ingress Protection		IP23
Cooling	Class	Forced Air
Insulation	Type	H
Welding Output Terminals	Class	Stud Type For Lug Type Cable Connections
Dimensions		
Length	mm	980
Width	mm	550
Height (With Handel)	mm	960
Wire Feeder		FEEDLITE 40 NEH(C)
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.