

# RED / TPA Series WELDING TRANSFORMERS

A Wide Range of World Class Welding Transformers



## RED SERIES

- Single phase (2 lines of 3 phase) Welding Transformers
- F Class Insulation - enhances services life
- User friendly AC ARC Welders
- Easily maneuverable from job to job on the shop-floor
- Stepless, smooth and infinitely variable current regulation
- Forced air cooled transformers - lesser coil temperature resulting longer service life



## TPA SERIES

- Three phase Welding Transformers
- User friendly AC ARC Welders
- Stepless, smooth and infinitely variable current regulation
- Compact and lightweight
- Convenient and easily maneuverable from job to job on the shop-floor
- 'Open-delta' design enables conversion of three phase input into single phase output
- Forced air cooled transformers - lesser coil temperature resulting longer service life



WELDERS TO THE NATION SINCE 1951  
**ADOR WELDING LIMITED**

(Formerly Known as Advani-Oerlikon Ltd.)  
[www.adorwelding.com](http://www.adorwelding.com)



# RED / TPA Series WELDING TRANSFORMERS

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**1**  
Phase

**3**  
Phase



## SALIENT FEATURES:

- Smooth welding current control by modern moving core magnetic shunt design
- Stepless, smooth and infinitely variable current regulation
- Adjustment of welding current possible even while welding is in progress
- 1 swivel front wheel and 2 rear wheel arrangement for easy maneuverability
- ON-OFF switch control, current control and current indicator provided on the front panel
- A Special design provides for excellent dynamic characteristic and ensures smooth and optimum metal transfer - RED Series specifically recommended for low hydrogen electrodes



## SPECIFICATIONS :

MODELS		RED 403	RED 503	TPA 303	TPA 403
<b>INPUT</b>					
Supply Voltage	Volts	415	415	380 / 415	380 / 415
Phases	No.	2 lines of 3 phase	2 lines of 3 phase	3	3
Frequency	Hz	50	50	50	50
Input KVA @ 100 % Duty Cycle	KVA	19	25	16.5	21.0
Input switch fuse rating	A	80	100	55	80
Recommended Capacitor for P.F. improvement	KVAr	8	10	6	7
<b>OUTPUT</b>					
Output Characteristic	Type	CC	CC	CC	CC
Operating Arc Voltage	Volts	22-36	23-40	22-32	22-35
Open circuit voltage	Volts	80	80	66	66
Welding current range	A	60-400	80-500	40-300	60-400
Max. Continuous hand welding current @ 60% Duty Cycle	A	300	400	225	300
current @100% Duty Cycle	A	230	300	175	230
Max. Intermittent welding current	A	400	500	300	400
Welding Electrode range					
Minimum	mms	2	2.5	2	2
Maximum	mms	6.3	6.3	5	6.3
<b>GENERAL</b>					
Class of Insulation	Class	F	F	A	A
Cooling Type	Type	Forced Air	Forced Air	Forced Air	Forced Air
Protection class	Class	IP23	IP23	IP23	IP23
Dimensions (mms)	mms	720	745	720	720
L	mms	460	500	500	500
W	mms	750	780	800	800
H	mms	110	132	125	163
Weight (approx.)	kgs.				
<b>ORDERING INFORMATION</b>		<b>PRODUCT CODE</b>	<b>PRODUCT CODE</b>	<b>PRODUCT CODE</b>	<b>PRODUCT CODE</b>
Standard Power Source-AC ARC Welder		F10.35.001.0007	F10.35.001.0008	F10.35.001.0014	F10.35.001.0015
<b>Optional Accessories</b>					
Welding Accessories	Type	S10.64.001.0014	S10.64.001.0014	S10.64.001.0014	S10.64.001.0015

- **Warranty:** One year from the date of purchase. 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.

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5/A, Corporate, L. B. S. Marg, Bhandup (West), Mumbai - 400 078. INDIA

Tel: +91 22 6623 9300/35, 2596 2564/25968326. Fax: +91 22 2596 6562/6062 Email: cmo@adorians.com