

# WELDING RECTIFIER TRANSDUCTOR (DIODE BASED)



## FEATURE :

- Most rugged and reliable rectifiers especially suited for remote and open construction sites with.
- Designed for use in outdoor and rigorous environmental conditions.
- Excellent welding Output Characteristics.
- Easy arc starting with any type of electrodes.
- Combination of well designed rectifier and transductor unit gives smooth and steady arc with minimum spatter and excellent weld bead.
- Good Quality lamination and double thermal insulated winding hence no burning of coil. Coil life over many years.
- Wide range of current Selection with the help of conveniently located regulator knob on the front panel or remote current control pendant.
- Possible to use 100 meters long welding cables.
- Almost zero maintenance, No PCB.
- Compact and drip proof casing mounted on wheels

# TECHNICAL SPECIFICATIONS

Transductor Controlled, Diode Based,  
Welding Rectifier Conforms To BIS No - 6008:1989 (R2004)

## Technical Specification

Model	Sapphire - 400	Sapphire - 600
Supply Voltage	3 PHASE, 400 Volts +/- 10%, 50/60Hz	3 PHASE, 400 Volts +/- 10%, 50/60Hz
Current Control Range	20 Amp - 400 Amps.	40 Amp -600 Amps.
Low	20 Amp - 100 Amps.	40 Amp -200 Amps.
Medium	70 Ams - 230 Amps.	50 Ams - 400 Amps.
High	200 Amp - 400 Amps.	300 Amp - 600 Amps.
Open Circuit Voltage	75 - 85 VDC.	75 - 85 VDC.
Input KVA at 60 % duty Cycle	27.0 KVA	52.8 KVA
Input KVA at 100 % duty Cycle	20.2 KVA	28.8 KVA
Insulation	Class 'H'	Class 'H'
Cooling	Fan Cooled	Fan Cooled
Dimension (L x W x H) mm	690 X 630 X 730	690 X 630 X 730
Weight	210 Kgs.	310 Kgs.

### OPTIONAL ACCESSORIES:

- Remote Current Control Pendant up to 100 mtrs. of cable length.
- Welding Holder with 5 mtrs. of cable length.
- Ground Clamp with 5 mtrs. cable length.
- Ammeter & Voltmeter can be provided on request.



### TECHNOCRATS PLASMA SYSTEMS PVT. LTD.

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Technical specifications are subjected to change because of continuous upgradation of products for better performance.