



D.C. WELDING RECTIFIER

CAPACITY - 200 TO 600 AMPS

COPPER WOUND



MODEL - SDC

D.C. WELDING RECTIFIER (FORCED AIR COOLED) COPPER WOUND

INTRODUCTION:

STERCO D.C. Welding Rectifiers Forced Air Cooled are used as power Source for manual metal Arc Welding (MMAW) jobs with bare & coated electrodes suitable for ferrous and non ferrous metals.

These welding rectifiers are also used as an alternative to DC welding generators and even have an edge over DC welding generator as there are no moving parts in welding rectifier except the cooling fan which ensures almost nil maintenance cost, besides its low initial cost as compared to generator.

These rectifiers can also be used as power source for plasma Arc cutting gas shielded arc welding & for Tungston Electrode (TIG) welding to do the welding of stainless steel copper alloys. Submerged Arc Welding and also suitable for carbon Air Arc Gouging.

TRANSFORMER:

Specially designed Transformer conforming to IS : 4559 1993 having core of high grade electrical steel Welding current is regulated by latest transconductor type control continuous current variations and 3 phase full wave bridge circuit used in current Rectifier for higher efficiency and steady form, Welding rectifiers are mounted on three solid rubber wheels (Front

wheels swivelling & steerable type by means of draw bar) for easy portability, bye bolts had been provided to lift the machine.

PROTECTION PROVIDED:

1. Both main & control rectifier protected against surges by semi conductor devices for positive protections.
2. M.C.B. is provided for protection of the current controller.
3. On-Off switch is provided on the front panel.

OPTIONAL:

Remote control with required cable length, voltmeter, Amp. meter and a set of welding accessories etc. can also be provided at on extra cost.

ADVANTAGES:

- ✓ Improves power factor and saves energy.
- ✓ Does not create unbalanced voltage fluctuation on the other load connected simultaneously.
- ✓ Lower demand of primary current for starting.
- ✓ Very low running and maintenance cost.
- ✓ Extremely low ripples in the output.

TECHNICAL SPECIFICATIONS

MODEL		SDC-2	SDC-3	SDC-4	SDC-5	SDC-6
Maximum Welding Current at 60% duty cycle	Amps.	200	300	400	500	600
Minimum Welding Current	Amps.	40	50	60	80	100
Open Circuit	Volts.	75	75	75	80	80
Welding Voltage	Volts.	21-28	22-32	23-36	23-40	24-44
Maximum Welding Current at 100% duty cycle	Amps.	150	220	300	375	450
KVA as per ISI	KVA	5.6	9.6	14.4	20	26.4
Maximum KVA	KVA	13	19.5	26	35	49
Cooling	Forced Air Cooled					
Input supply	380/415/440 volts Balance load-3 phase, 3 lines, 50 Hz.					
Maximum Electrode Size	MM	4	5	6.3	8	8
Minimum Electrode Size	MM	2.5	2.5	3.15	4	4
Insulation Class	F	F	F	F	F	F
Power Factor with Capacitor	0.8 at half load					
Recommended Power Factor capacitor	KVAR	4	6	8	10	12
Current Regulator	Stepless					

OUR OTHER PRODUCTS

- * Servo Voltage Stabilizer
- * A.C Arc Welders
- * Rocker Arm Spot Welder (Pedal / Pneumatic)
- * Wire/ Strip Butt Welder.
- * Band Saw Butt Welder.
- * Heating/Annealing equipment.
- * Electroplating Rectifier.
- * Auto variable Transformers
- * All type of Welding Accessories & Gas Welding Equipments

- Rectifiers of higher ratings upto 800 - 1000 amps. with higher O.C.V (Open Circuit Volt).
- Multi - Operator welding rectifiers can also be available.

Note: We reserve the right to change design and modify specifications of the discretion of our technical department.

Mfd. By :

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