

MTW Welding Rectifier A/6 Series

Totally revolutionary high efficiency full wave thyristorised D. C. Welding machines

Features :

- Sturdy & proven construction to withstand extra-ordinary welding environments.
- Fully Thyristorised full wave, infinitely variable current setting over the entire range from 10 Amps to rated current. Automatic current stabilization, offers finger touch control.
- MTW Rectifier designed for extra smooth arc, reduction of spatter level and high efficiency, makes no load losses and input current very low.
- MTW specially for 6010 cellulosic, 7018 & 6013 electrodes.
- Low noise cooling fan which is permanently lubricated.
- Modular design of PCB, plug in system reduce down time. PCBs housed in additional steel enclosure for protection & preventing the damages.
- Specially designed outer casing treatment which allows exposure to any offshore climatic condition.

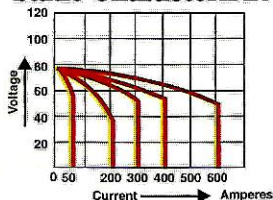
Amps & Volt Meter : (Analog)

Although the MTW Rectifier always gives the exact currents as set by its knob, an Ammeter and Voltmeter are provided to ensure the exact current and arc voltage.

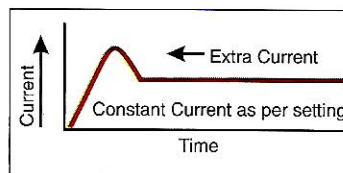
Extra Safety :

The set is provided with tripping system. If output welding cable short circuits, within 3 minutes the current comes to minimum, thereby saving energy and avoiding cable burning.

Static Characteristics :

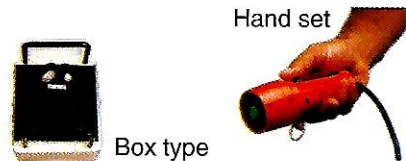


Manual Arc with Hot Start :



The moment electrode is arced at the work place, an extra current surges into the electrode for prevention of freezing, as well as to start welding with deep penetration.

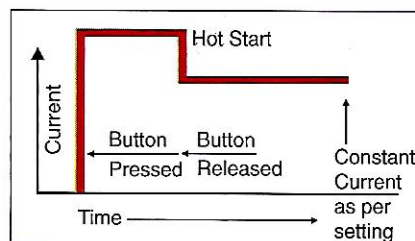
Remote Control



(Hand set or Box Type is Optional)

This is very useful when welding is carried out at a distance of 100 mtrs. from the MTW Rectifier and frequent current adjustments are to be made, as in case of pipeline welding of 6 GR position. The control is housed in a sturdy enclosure weighing only 200 gms. Standard cord is 25 mtrs. along with above remote control & 50/100 mtrs. available on demand.

Additional Hot Start



This is a facility to get additional current for short period for the Hot Start to remelt the craters from the previous electrode, avoiding slag inclusions. A push button is fitted along side of the remote control. The Operator could obtain the extra current by simply pressing the push button.



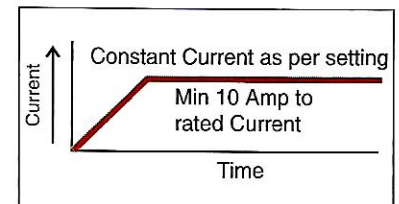
33%
Energy saving



Model MTW A6

Design No.
166405

Tig Welding Process :



MTW A6 - series of rectifiers are provided with change over switch from manual to TIG process to cut off initial surge facility which is not required for TIG Process.

Optional

Energy Saver, Remote On/Off Systems, H. F. Console, TIG Welding Torches, Water Cooling Systems & other Accessories.

Technical Data : (Conforms to IS 4559)

Model MTW	A6 180	A6 250	A6 300	A6 400	A6 500	A6 600	A6 800	A6 1000	A6 1200
Input ($\pm 10\%$)	415 V/3 ϕ	415 V/3 ϕ	415 V/3 ϕ	415 V/3 ϕ	415 V/3 ϕ	415 V/3 ϕ	415 V/3 ϕ	415 V/3 ϕ	415 V/3 ϕ
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Cooling	Forced Air	Forced Air	Forced Air	Forced Air	Forced Air	Forced Air	Forced Air	Forced Air	Forced Air
Insulation class	H	H	H	H	H	H	H	H	H
Primary Current Max. Rated									
S/O	13A	19 A	22 A	28 A	36 A	44 A	56 A	72 A	88A
D/O	-	38 A	44 A	56 A	72 A	88 A	-	-	-
Six/O	-	114 A	132 A	168 A	228 A	264 A	-	-	-
At Max. Rated KVA									
S/O	9A	14	16.5	20	28	34	40	56	68
D/O	-	28	33	40	56	68	-	-	-
Six/O	-	84	99	120	168	204	-	-	-
Input Cable Section									
S/O (Cu)	6 mm ²	10 mm ²	10 mm ²	10 mm ²	10 mm ²	16 mm ²	18 mm ²	18 mm ²	30 mm ²
D/O (Cu)	-	16 mm ²	16 mm ²	25 mm ²	25 mm ²	35 mm ²	-	-	-
Six/O (Cu)	-	50 mm ²	50 mm ²	75 mm ²	80 mm ²	100 mm ²	-	-	-
O. C. V.	75-85V	75-85V	75-85V	75-85V	75-85V	75-85V	75-85V	75-85V	75-85V
Duty cycle	100%	60%	60%	60%	60%	60%	60%	60%	60%
Welding Cable	40 mm ²	50 mm ²	50 mm ²	50 mm ²	70 mm ²	95 mm ²	100 mm ²	120 mm ²	140 mm ²
Range	10-180 A	10-250 A	10-300 A	10-400 A	10-500 A	10-600 A	10-800 A	10-1000 A	10-1200 A
Protection class	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23	IP23
Overload protection	Thermal	Thermal	Thermal	Thermal	Thermal	Thermal	Thermal	Thermal	Thermal
Dimension (Without Pkg) approx									
S/O Length	650 mm	685 mm	685 mm	685 mm	705 mm	705 mm	705 mm	725 mm	775 mm
S/O Width	470 mm	590 mm	590 mm	590 mm	625 mm	625 mm	625 mm	675 mm	725 mm
S/O Height	725 mm	915 mm	915 mm	915 mm	1000 mm	1000 mm	1000 mm	1100 mm	1200 mm
S/O Weight	90kg.	120kg.	155 kg.	160 kg.	230 kg.	270 kg.	325 kg.	360 kg.	405 kg.
D/O Length	-	900 mm	900 mm	900 mm	900 mm	900 mm	900 mm	Specially Custom Built AC/DC Power Sources SPMs	
D/O Width	-	780 mm	780 mm	780 mm	850 mm	850 mm	850 mm		
D/O Height	-	1060 mm	1060 mm	1060 mm	1060 mm	1060 mm	1060 mm		
D/O Weight	-	315 kg.	325 kg.	380 kg.	400 kg.	450 kg.	450 kg.		
Six/O Length	-	2290 mm	2290 mm	2290 mm	2650 mm	2650 mm	S/O - Single Operator D/O - Double Operator Six/O - Six Operator		
Six/O Width	-	830 mm	830 mm	830 mm	830 mm	830 mm			
Six/O Height	-	1350 mm	1350 mm	1350 mm	1350 mm	1350 mm			
Six/O Weight	-	950 kg.	1050 kg.	1200 kg.	1350 kg.	1500 kg.			

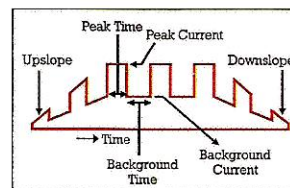
Pulsed Tig Welding Machine:

This is a special type of Welding Rectifier in which the current is pulsed, as shown in diagram. This type of welding is required for thin sheet welding like Expansion Bellow Joints where heat has to be limited to avoid burn through.

Upslope and Downslope facility is also available without Pulse.



Pulsed Rectifier with Upslope and Downslope



TIG Welding H.F. Console

Water Cooling System



H. F. Console with Prewflow/Postflow for TIG Welding Process including Water Cooling System with S.S. Water Tank, Copper Radiator, Cooling fan. Supply 200/220V. 1 ϕ 50/60Hz.

Manufacturer: Welding Transformer, Multi Operator, Welding Rectifier, AC/DC TIG Welding, SAW, MIG/MAG, Pulsed Upslope/Downslope TIG Welding Set, Stud Welder, Weaver Weld Automate for 1G, 2G & 3G, CO₂/MIG with CC/CV Power Source, D. G. Welding Set, Column & Boom, Welding Rotator & Positioner, Girth Welder, Welding Automation, Plasma Cutting, Pipe Cutting, Flux/Electrodes Drying Oven, Flux Recovery unit, Pipe Gas Cutting Machines & Welding Accessories. Specialist Inverters & Chopper Based Welding Equipments.

MEMCO[®]
Synonymous with welding

Miraj Electrical & Mechanical Co. Pvt. Ltd.

Swastik Chambers, Chembur, Mumbai 400 071, INDIA

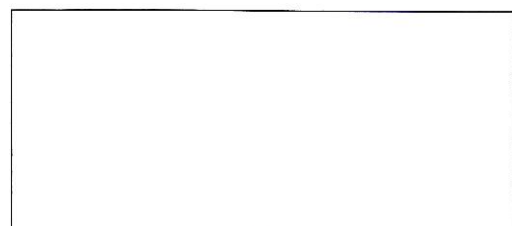
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