

01

Welding Machines
Cutting Machines
Industrial Transformers
Servo Voltage Stabilizer



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About Us



Sunshine Rectifier & Transformers made a start in the year 2000 with emphasis on quality product at economical prices by setting up their design, production facilities at Delhi. Since 2000, Sunshine is into the manufacturing process and have developed quality Welding Products, Servo Voltage Stabilizer and Step Down Transformers for different industries. Customer satisfaction is the force that leads us to assure quality and service in every segment of our work. We are committed to provide the most innovative, cost-effective, quality welding solutions, cutting solutions and industrial transformers. The endeavor is to provide the best alternatives and it is backed by a strong commitment to work in accordance to attain the highest standards. A Extensive & complete stock of spares for all the models is available all the time to ensure prompt After sale service for the machines which reduces downtime and loss to the customer. And help us to provide the highest level of satisfaction.



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CO₂/Mig Welding Machines



Sunshine MIG welding machines are suitable for welding in various sheet metal applications of different industries. These machines possess excellent compactness and are mounted on wheels for hassle-free movement. These are designed and engineered by our proficient personnel to suit the exact requirements of our clientele. We also offer these high-performing machines according to the customized requirements of our clients.

Co₂/MIG is a welding method, which utilizes a fusing welding wire & a protective active gas. MIG welding stands for metal inert gas, which is commonly used in high-deposition rate welding processes. Wire is continuously fed from a spool. MIG welding is ideal for virtually defect-free sheet metal welding. MIG welding machines are used in light and heavy fabrication workshops, auto industries, wagon building, sugar mills, shipyards, cycle industries, sheet metal components, electrical & electronics for improved welding quality, increased production, and less fatigue.

Advantages

- High fusing capacity.
- Suitable for solid wire as well as flux-covered wire.
- Less operator skill required.
- Concentrated heat application.
- Low deformation of welded parts



SPECIFICATION OF CO₂/MIG WELDING MACHINE



Model Specifications	SSM-250	SSM-400	SSM-600
Welding Current	Upto 250	Upto 400	Upto 600
Open Circuit Voltage	18-38	18-54	20-65
Maximum Continuous Welding Current			
@ 60% Duty Cycle AMPS	250	400	600
@ 100% Duty Cycle AMPS	180	315	480
Inputs Supply Rating	415/3PH 50HZ	415/3PH 50HZ	415/3PH 50HZ
@ 60% D.C.KVA	8.8	22.5	35
@ 100% D.C.KVA	6.5	17	27
Cooling	FORCED AIR	FORCED AIR	FORCED AIR
Insulation	E	E	E
Weight KG	105	180	250
Wire Size mm (Steel)	0.8,1.0	0.8,1.2	1, 1.2,1.6
Wire Size mm (Aluminum)	1	1.2	1.2,1.6
Speed Range	0_18	0_18	0_18
Drive Type	2 Roll	2 Roll	2 Roll
Roll	Spool Size	Spool Size	Spool Size



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Plasma Cutting Machine

With these machines, Compressed Air is heated up and converted into molecular state and on Further heating the Air is ionized. The ionic state of any gas is called Plasma. We use Air as Media, hence its called Air Plasma. Instead of expensive Argon or Nitrogen, we use only compressed air for plasma formation. Hence its called Air Plasma.

Air Plasma can be used to cut the following metals. Stainless Steel, Mild Steel, Carbon & Alloy Steel, Aluminium and its alloys, Copper, Casting, Bronze and Brass, Manganese Steel, Special Alloys etc

Advantages

- The cutting speed achieved ensures high productivity.
- Double the speed at half the Cost.
- It avoids distortion and Gives fine cut finish.
- Very little post cutting operation is required.
- Metal wastage is minimized.
- Job does not get over heated.



SPECIFICATION OF PLASMA CUTTING MACHINE

Model no.	sspm-6	sspm-10	sspm-16	sspm-30	sspm-40	sspm-75(w)step	sspm-100(w)step
Primary Voltage	380-440v 3Phase 50Hz	380-440v 3Phase 50Hz	380-440v 3Phase 50Hz	380-440v 3Phase 50Hz	380-440v 3Phase 50Hz	380-440v 3Phase 50Hz	380-440v 3Phase 50Hz
Secondary Voltage	260-280 V	260-280 V	260-280 V	260-280 V	260-280 V	260-280 V	260-280 V
Line Current	12 Amp.	24 Amp.	32 Amp.	44 Amp.	60 Amp.	90 Amp.	120 Amp.
Arc Current	40 Amp.	60 Amp.	80 Amp.	100 Amp	135 Amp.	125 Amp 250 Amp.	150 Amp 300 Amp..
O.C.V (No load)	300_320 VDC	300_320 VDC	300_320 VDC	300_320 VDC	300_320 VDC	.300_320 VDC	300_320 VDC
Power Rating	6.8 KW	13.5 KW	20.0 KW	28.5 KW	38.5 KW	63.0 KVA	84.0 KVA
Insulation	E class	E class	E class	E class	E class	E class	E class
Duty cycle	100 % at Full loady current of 40 Amp.	100 % at Full loady current of 60 Amp.	100 % at Full loady current of 80 Amp.	100 % at Full loady current of 100 Amp.	100 % at Full loady current of 135 Amp.	100 % at Full loady current of 250 Amp.	100 % at Full loady current of 300 Amp.
Cutting Capacity For SS Clean Cut	6mm	15mm	25mm	35mm	45mm	75mm	100mm
for SS Parting Cut	10mm	20mm	30mm	40mm	50mm	80mm	105mm





Welding Rectifier

Sunshine DC welding rectifiers are reliable, durable and work continuously round the clock. These machines are easily movable from one place to another because machine are mount on wheels. These machines are widely used in many fabrication industries, power projects, hydro projects for various welding and rectifying applications. We also possess a capability to provide customization on these machines according to the specific requirements of our clientele. Sunshine Series of Welding Rectifier are forced air cooled with full wave rectifier assures trouble free service for years. These welding rectifiers are designed for smooth arc in all Position and almost spatter free welding quality. These Rectifier are used in Oil Companies like IOCL, BPCL, HPCL, CNG Pipe Lines, Power Projects and Heavy duty Constructions.

Advantages

- Less Power Consumption than Traditional Transformers.
- Balance load Across all Phases.
- Highly Durable & Reliable.
- Low Downtime & Easy to maintain.
- Quality X-RAY Welding



SPECIFICATION OF WELDING RECTIFIER



Model Specifications	SSR-400	SSR-600
Supply Voltage	415	415
Primary current at max. output	40 A	68 A
Open circuit voltage	80	80
Max. continuous current at 100% duty cycle	300	420
KVA – Max. Continuous	20	30
KVA – Max.	26	43.2
Welding current range (in two ranges)	40-400A	60-600A
Speach. To which conforms	IS : 4559	IS : 4559
Max. ambient temperature	40°C	40°C
Class of Insulation	E	E
Type of cooling (Forced)	Air Cooled	Air Cooled
Approx. Dimension (WxLxH) mm	584x736x784	825x625x900
Approx. Weight (Kg.)	330	450



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Tig Welding Machine

TIG stands for Tungsten Inert Gas and is technically called Gas Tungsten Arc Welding or GTAW. The process uses a non-consumable tungsten electrode that delivers the current to the welding arc. The tungsten and weld puddle are protected and cooled with an inert gas, typically argon. Tig is most commonly used to weld thin sections of stainless steel and non-ferrous metals such as aluminum, magnesium, and copper alloys. The process grants the operator greater control over the weld allowing for stronger, higher quality welds.

Sunshine TIG Welding Machines are suitable for welding in various sheet metal applications of different industries. These machines possess excellent compactness and are mounted on castor wheels for Hassle free movement. These are designed and engineered by our proficient personnel to suit the exact requirements of our clientele. We also offer these high performing machines according to the customized requirements of our clients



SPECIFICATION OF TIG WELDING MACHINE



Model Specifications	SST-400	SST-600
Supply Voltage	415	415
Primary current at max. output	40 A	68 A
Open circuit voltage	80	80
Max. continuous current at 100% duty cycle	300	420
KVA – Max. Continuous	20	30
KVA – Max.	26	43.2
Welding current range (in two ranges)	40-400A	60-600A
Speech. To which conforms	IS : 4559	IS : 4559
Max. ambient temperature	40°C	40°C
Class of Insulation	E	E
Type of cooling (Forced)	Air Cooled	Air Cooled
Approx. Dimension (WxLxH) mm	584x736x784	825x625x900
Approx. Weight (Kg.)	330	450





Inverter Welding Machine

Sunhshine inverter welding machines are very high performing, Power Saving 60%, compact, portable and light-weight. These machines run on the inverter technology and are used in Chemical Plants, Dairy equipments, Food Processing machinery, Pharmaceutical Machinery, Ornamental metal furniture, Breweries plants, Kitchen & Hotel equipments, Hospital equipments, Pipe line welding, Structural fabrication, Pumps & valves Industry etc.

Inverter technology is a voltage conversion system which applied to welding makes compact power sources with low energy consumption. Inverter based constant direct current power sources use the latest knowledge of Electronics technology applied to welding.

Advantages of Inverter Welding Machines

- Inverter based welding machine saves energy upto 50%.
- High quality integrated electronic power source using IGBT technology.
- 80% less weight compare to conventional machine.
- No load input 0.2 amps results in substantial savings in power cost.



SPECIFICATION OF INVERTER WELDING MACHINES

Model Specifications	IGBT- 200	IGBT-250	IGBT-400	IGBT-500	IGBT-600
Input Supply	195V-265V	350V-465V	350V-465V	350V-465V	350V-465V
Phase/ Freq.	1/50-60HZ	3/50-60HZ	3/50-60HZ	3/50-60HZ	3/50-60HZ
Max. Installed Power HP	6	9	18	28	34
Input KVA @ 60%	4.8	11.9	15.9	23.9	29.9
Input KVA @ 100%	3.7	9.2	13.7	15.6	17.1
OCV-DC	75-85V	75-85V	75-85V	75-85V	75-85V
Current Range Amps	3-200	5-250	5-400	5-500	10-600
Current @ 60%	160	220	350	500	600
current @ 100%	120	165	300	380	450
Class of Protection	IP 23	IP 23	IP 23	IP 23	IP 23
Class of Insulation	H	H	H	H	H
Cooling	Forced Air	Forced Air	Forced Air	Forced Air	Forced Air
Dimensions	195x430x270	210x500x320	260x680x360	420x540x720	420x540x720
Weight Kgs.	13	19	43	60	68



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ALSO AVAILABLE ABOVE MODELS WITH BUILT IN HIGH FREQUENCY AND SOLENOID VALVE

Model	IGBT-200 HF/PULSE	IGBT-250 HF/PULSE	IGBT-400 HF/PULSE	IGBT-500 HF/PULSE	IGBT-600 HF/PULSE
Pre Flow	1-10 Sec.	1-10 Sec.	1-10 Sec.	1-10 Sec.	1-10 Sec.
Past Flow	1-10 Sec.	1-10 Sec.	1-10 Sec.	1-10 Sec.	1-10 Sec.
Up Slope	1-10 Sec.	1-10 Sec.	1-10 Sec.	1-10 Sec.	1-10 Sec.
Down Slope	1-10 Sec.	1-10 Sec.	1-10 Sec.	1-10 Sec.	1-10 Sec.
Pulse Time	10%-90%	10%-90%	10%-90%	10%-90%	10%-90%
Pulse Frequency	1-10Hz	1-10Hz	1-10Hz	1-10Hz	1-10Hz
Dimensions (WxLXh in mm)	195x430x490	220x550x600	340x700x800	420x540x850	420x540x850
Wiegth Kgs	21	28	48	70	78





STEP DOWN TRANSFORMER

Sunshine Step down transformer specially design for furnaces incoming supply that are selected with rotary switch. Transformer winding are double wound & cooling arrangement is done with the help of radiator.



The step down transformers are fully customizable and are manufactured according to the customer needs and requirements. Step down transformer is one whose secondary voltage is less than its primary voltage. It is designed to reduce the voltage from the primary winding to the secondary winding.

This kind of transformer “steps down” the voltage applied to it. As a step-down unit, the transformer converts high-voltage, low-current power into low-voltage, high-current power. The larger-gauge wire used in the secondary winding is necessary due to the increase in current. The primary winding, which doesn't have to conduct as much current, is made of smaller-gauge wire.



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SERVO VOLTAGE STABILIZER

We are Manufacturing Servo Voltage Stabilizers that are capable of handling voltage fluctuations. It is seen that In spite of best efforts by various Electricity Boards / Supply undertakings the voltage at consumer's end is never constant. The reason being diverse loading duties arising in transmissions and distribution network.

As a result of these never ending voltage fluctuations there is frequent Tripping / Breakdown of the systems / machines and precious equipment's resulting into low production.

Our range of Servo Voltage Stabilizer can overcome and control these voltage fluctuations & can provide you with the desired constant output voltages. The Servo Voltage Stabilizer are manufactured according to the customer requirement.



Advantages of Sunshine Servo Voltage Stabilizer

- Corrects voltage automatically and continuously.
- Protects costly equipment's from menace of High/ Low Voltage, thus cutting down the maintenance cost.
- Increased Productivity.
- Low Production losses & better efficiency in plant.
- Easy accessibility from all four sides.
- Auto / Manual operation facility.
- Over voltage and under voltage indicators.
- Output voltage adjustability provided on panel.



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TECHNICAL SPECIFICATIONS OF SERVO VOLTAGE STABILIZER

Make	Sunshine
Capacity	1KVA – 30 KVA (Single Phase), 5 KVA – 1500 KVA (Three Phase)
Input Voltage	200V-500V phase to phase as per requirement \ Single Phase 110-270 V
Output Voltage	1 Phase 220 / 230 / 240 +/- 1% 3 Phase 380 / 400 / 415 +/- 1%
Regulation	$\pm 1\%$
Supply Frequency	47 Hz – 51 Hz
Effect of Load Power Factor	Nil
Wave form Distortion	Nil
Rate of Correction	Better than 20V / sec. in AIR cooled models. Better than 30V / sec. in OIL cooled models.
Duty Cycle	100 % Continuous
Cooling	Air or Oil cooled as per requirement
No Load Losses	Less than 0.8% .
Suitability	Suitable for 3 Ph. unbalanced/balanced supply & unbalanced / balanced load.
Mounting	Wheels
Earthing	Terminal Provided
Efficiency	Not less than 98 %





ELECTROPLATING RECTIFIERS

Electroplating Rectifiers is an equipment that converts AC into DC supply. Sunshine make Silicon Rectifiers are widely used in Electroplating, Anodizing, Hydrogenation and all other electrochemical processes. These power rectifiers, anodizing rectifiers and electroplating power rectifiers are tailor made, covering a wide range from 200 Amps to 15000 Amps at different output DC voltage as per requirement.

Advantages

- Designed for 100% Continuous Duty Cycle
- Compact Design for Space Saving
- Lesser Power Consumption
- Negligible Maintenance
- Tested at Each & Every Stage of Manufacturing
- Liberal Design & Rigorous Testing of the Equipment Enables Trouble Free Service for Long Life.

Brief Specifications

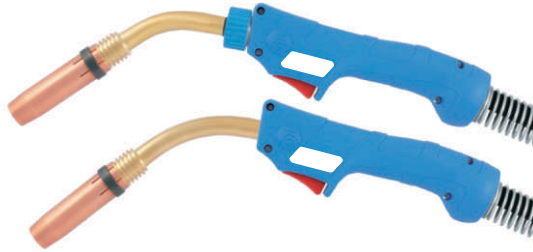
Input Voltage	380 - 440 Volts, 3- Phase 50 Hz. AC supply or any other voltage
output Voltage	Fixed Rated maximum DC voltage or variable from zero to maximum rated voltage
Output Current	Rated maximum DC current
Temperature Rise	Less than 45° C above ambient at the top of the oil
Efficiency	Depends on voltage current rating of rectifier
Ripple Content	Less than 5%
Insulation	'E' class for oil cooled



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Mig Torches



Tig Torches



Plasma Torches



Mig Spares



Tig Spares



Plasma Spares



Regulator / Flowmeter



Electrode Welding Holder



Earthing Clamp



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