SigmaWeld™
Digital Welding Inverters for MMA, TIG, MIG

Sigma Weld - SW400 Digital Welding Inverters

SW 400 MT

SW 400 HF
SW 400 PT
SW 400 UD
SW 400 PW

Sigma Weld series welding machines are sophisticated IGBT based inverters with total digital control having wide current range. Sigma Weld is designed to meet varied requirement of the welding industry covering Manual Arc Welding, TIG Welding, High Frequency TIG Welding, Pulse TIG Welding. Advanced micro controller technology enables Sigma Weld to have Up Slope / DownSlope and Pulsing even without the use of High Frequency.

Mobility: This 50 Kgs. inverter has 4 wheels so that the operator can move it easily from one location toanother.

Low OCV: During energy saving, OCV goes down to as low as 20 VDC for added safety and energy saving.

Adaptive Hot Start: Sigma Weld prevents electrode from sticking and gives clean start each time.

Single Amperage **Range:** Digital front panel allows the operator to set the current is required in single increment also.

TIG Ignition • Lift-Arc: Sigma Weld provides TIG arc starting and there is no need to use of high frequency.

In Built Gas Solenoid Valve: Operator can use very light TIG torch and use gas only as required, ensuring zero wastage of gas.

Thermal overload protection: Reliable thermal shutdown mechanism in place, in case of overuse or blockage in airflow.

Power Fluctuation Compensation: Power source does not get affected and it remains constant regardless of fluctuation in input power ± 10 %. Its suitable especially for the Indian Industry.

Digital Ampere Reading: During welding, it continuously monitors and displays weld current.

Robust: Sigma Weld can work with cable length of upto 50 m with reduced duty cycle.

Versatile: Sigma Weld can weld using all types of welding electrodes (suitable for 6010, 6013, 7018 and equivalent electrodes).

Process Memory Recall: It remembers separately the settings for each and every process. This leads to fast set up time between process changes and each Power ON.

Energy Saving Mode: When operator is not welding for 2 minutes, then welding inverter in Manual / Stick mode goes into energy save mode, enabling saving of unwanted energy loss.

AVAILABLE WELDING MODE

- Stick (MMA)
- Lift-ArcTIG (GTAW)
- Lift-Arc/Up Slope/Down Slope
- Lift-Arc/Up Slope/Down Slope/Pulsing
- High Frequency/ Up Slope/Down Slope
- High Frequency/Up Slope/Down Slope/Pulsing

MODELS AVAILABLE

MT: Manual /TIG inverter. SW400MT includes the basic features. which are necessary for DCTIG or Stick welding applications.

UD: Manual/TIG inverter. The SW400UD without HF starts with sellable up slope and down slope timings. Most suitable where high frequency is not permissible to use still can achieve the same control using only Lift Arc technology.

PW: Manual/TIG inverter. The SW400PW without HF starts with sellable up slope and down slope timings along with Pulsing control for peak and base current, most suitable where high frequency is not permissible to use still can achieve the same control using only Lift Arc technology.

HF: Manual/TIG inverter with high frequency. The SW400HF provides HF starts with settable up slope and down slope timings where greater control is required.

PT: Manual/TIG inverter with high frequency pulsing control. The SW400PT provides HF starts with settable up slope and down slope timings along with Pulsing Control for Peak and Base Current where greater control is required.

ORDERING INFORMATION

SW 400 Mode
SW : SigmaWeld
400 : 400A
Mode: MT,UD,PW,HF,PT,

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