



# SSVA-160-2

Multifunctional current source inverter

*Made in Ukraine*

**SSVA-160-2** is a high-quality, powerful inverter-type current source manufactured by Ukrainian the MAXIMA PLUS company specializing in the development of electronic devices, equipped with a microprocessor control and control system of welding parameters.

**SSVA-160-2** is designed specifically for equipping construction and installation enterprises and mobile teams for intensive work in difficult conditions, with insufficient power supply and unstable voltage of power supply network.

## SSVA-160-2 can be:

- ❖ a direct current (DC) source with adjustable current-voltage characteristic (CVC) slope for manual metal arc welding (MMA) with coated electrodes of 1.6—5.0 mm with any type of coating and an output current up to 190 A;
- ❖ a DC source as a piece of equipment for gas-shielded arc welding with mechanized feeding of welding wire of 0.6—1.0 mm (MIG/MAG);
- ❖ a DC source as a piece of equipment for tungsten inert gas arc welding with contacting arc ignition (TIG) (also possible to install an oscillator unit for *non-contact* ignition);
- ❖ 12 V car battery charger/starter.

## Distinctive features and advantages:

- high power with small dimensions and weight;
- exceptional energy-saving parameters;
- stable welding parameters to any values of a welding current;
- stable arc, independent of voltage fluctuations in electrical grid (165—275 V);
- at MIG/MAG mode, extremely comfortable welding of thin metals;
- input voltage control system helps protect a machine when connected to a 380 V electrical grid;
- "Hot-start", "Arc-Force", "Anti-stick" modes facilitate work in hard-to-reach locations, allow welding even for beginners;
- intelligent cooling control system provides a maximum duty cycle factor;
- a internal scheme provides a limiter of no-load voltage, that allows safe welding operations in wells, inside tanks, in damp areas;
- high workability, reliability and maintainability;
- possibility of expanding functionality, improving consumer properties by updating a firmware (a software of a microcontroller).

## Technical specifications

Nominal voltage, V	220	
Operating voltage range, V	165—275	Or a equivalent resistance of a electric grid is not more than 4 Ω
Operating ambient temperature range, °C	-30...+45	There are no fundamental limitations for operation at lower temperatures
Consumed power (household electric grid 220 B, 16 A), kW, not over	2.7 (12 A)	At output direct current to 110 A
Consumed power (household electric grid 220 B, 16 A), kW, not over	3.5 (16 A)	At output direct current to 140 A
Consumed power (industrial electric grid 220 B, 25 A), kW, not over	5.5 (25 A)	At output direct current to 160 A
Consumed power (industrial electric grid 220 B, 25 A), kW, not over	Short-term, 0.2 s, 6.7 (30 A)	At MMA mode with maximum settings at breaking away of a arc
No-load power, W, not over	40	
Output amperage adjustable range, A	5—190	
Maximum short-circuit current, A	~ 250	
Rated duty cycle, %, not less	up to 135 A — 100 160 A — 60	
Overall efficiency, %, not less	88	
Power factor (cos φ)	0.67	
Wire diameter, mm	0.6—1.0	When used in conjunction with SSVA wire feeder
Output voltage adjustable range, MIG/MAG mode, V	7.8—24.6	
Insulation resistance at voltage of 2.5 kV, MΩ, not less	50	Standard — 300
Dimensions (Length × Width × Height), mm	470 × 150 × 230	
Weight, kg, not over	10	Without welding cables

### Note:

We reserve the right to change technical specifications in order to improve reliability, improve consumer properties and add new functionality.

## Package contents

- SSVA-160-2 current source inverter — 1 pce
- 3 m welding cable KG 1 × 16 with MK 400 ABICOR BINZEL ground clamp — 1 set
- 3 m welding cable KG 1 × 16 with DE 2300 ABICOR BINZEL electrode holder — 1 set
- Operation manual — 1 pce

## Pay attention to

- Microprocessor controlled arc parameters
- Feature-rich
- Accessories of ABICOR BINZEL
- Reliable metal housing
- Warranty — 2 years

### TOV "MAXIMA PLUS"

vul. Klochkivska 332a, KHARKIV, 61051, UKRAINE

Tel/Fax: (057) 336-01-26, 338-96-11

E-mail: svarka.kharkov.ua@gmail.com, office@maxima.net.ua; Web Site: www.ssva.ua