



# SSVA-270-P

Multifunctional current source inverter

Made in Ukraine

**SSVA-270-P** — 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-270-P** is designed for intensive industrial operation.

## SSVA-270-P can be:

- ❖ a direct current (DC) source for gas-shielded arc welding with mechanized feeding of welding wire of 0.6—1.2 mm (MIG/MAG);
- ❖ a DC source with adjustable current-voltage characteristic (CVC) slope for manual metal arc welding (MMA) with coated electrodes of 1.6—6.0 mm with any type of coating and an output current up to 270 A;
- ❖ 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, comfortable welding in wide range of welded metal thicknesses;
- welding of aluminum with a wire of 1.0—1.2 mm at MIG/MAG mode in inert gas atmosphere (argon);
- 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 t°
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, 70 A), kW, not over	16.0 (65 A)	At output direct current to 300 A
No-load power, W, not over	40	~ 10 with stopped fans
Maximum short-circuit current, A	~ 350	
Rated duty cycle, %, not less	up to 160 A — 100, 240 A — 60 270 A — 45	
Overall efficiency, %, not less	88	
Power factor (cos φ)	0.67	
Electrode diameter, mm	1.6—6.0	With any electrode coating
Wire feed speed, MIG/MAG mode, m/min	0.3—15.0	A upper limit of speed depends on a setting voltage
Wire diameter, MIG/MAG mode, mm	0.6—1.2	
Output voltage adjustable range, MIG/MAG mode, V	10.0—29.0	
Output amperage adjustable range, MMA mode, A	5—270	Electric grid 220 V 70 A
Insulation resistance at voltage of 2.5 kV, MΩ, not less	50	Standard — 300
Dimensions (Length × Width × Height), mm	480 × 300 × 270	
Weight, kg, not over	17.0	Without welding cables and torch

### Notes:

1. To operate at maximum power, a 220 V electrical grid must provide the ability to operate with a current consumption of up to 70 A.
2. We reserve the right to change technical specifications in order to improve reliability, improve consumer properties and add new functionality.

## Package contents

- SSVA-270-P current source inverter — 1 pce
- 3 m welding cable KG 1 × 25 with MK 400 ABICOR BINZEL ground clamp — 1 set
- 3 m welding cable KG 1 × 25 with DE 2300 ABICOR BINZEL electrode holder — 1 set
- Welding torch for welding at MIG/MAG mode (RF 26 GRIP) — 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