



SSVA-270

Multifunctional current source inverter

Made in Ukraine

SSVA-270 — 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 is designed for intensive industrial operation.

SSVA-270 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—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 gas-shielded arc welding with mechanized feeding of welding wire of 0.6—1.2 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, 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;
- an 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 (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 270 A
No-load power, W, not over	40	
Output amperage adjustable range, A	5—270	Electric grid 220 V 70 A
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	
Wire diameter, MIG/MAG mode, mm	0.6—1.2	When used in conjunction with SSSVA wire feeder
Output voltage adjustable range, MIG/MAG mode, V	10.0—29.0	
Insulation resistance at voltage of 2.5 kV, MΩ, not less	50	Standard — 300
Dimensions (Length × Width × Height), mm	510 × 175 × 240	
Weight, kg, not over	12	Without welding cables

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

- SSSVA-270 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
- Operation manual — 1 pce

Pay attention to

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

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