



SSVA-180-P

Multifunctional current source inverter

Made in Ukraine

SSVA-180-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-180-P is designed specifically for equipping of vehicle service stations for ability to work in difficult conditions, at insufficient power supply and unstable voltage of power supply network.

SSVA-180-P can be:

- ❖ a direct current (DC) source for gas-shielded arc welding with mechanized feeding of welding wire of 0.6—1.0 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—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 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 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, 25 A), kW, not over	Short-term, 0.2 s, 6.7 (30 A)	At mode of MMA with maximum settings at breaking away of a arc ~ 10 with stopped fans
No-load power, W, not over	40	
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	
Electrode diameter, mm	1.6—5.0	With any electrode coating
Wire feed speed, MIG/MAG mode, m/min	1.5—10.0	A upper limit of speed depends on a setting voltage. Possible speed is up to 15 m/min
Wire diameter, MIG/MAG mode, mm	0.6—1.0	Wire diameter 1.2 mm or more is not recommended
Output voltage adjustable range, MIG/MAG mode, V	7.8—25.4	
Output amperage adjustable range, MMA mode, A	5—190	
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	15.0	Without welding cables and torch

Note:

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

Package contents

- SSSVA-180-P 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
- Welding torch for welding at MIG/MAG mode (ABIMIG® GRIP A 155 LW 3,00 m KZ-2) — 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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