

A7 MIG Welder



BENEFITS

- Quick and easy integration with any robot brand with modern fieldbus hardware modules.
- Access to the power source from an external computer via ethernet with a regular web browser. No extra programs needed. Enables radical savings in setup time, as well as quick and easy parameter configuration, system management, and monitoring throughout the equipment's life cycle.
- Increased productivity and a short payback period thanks to the Wise software and a wide range of available functions. Wise processes are fine-tuned and pre-set to optimize productivity with welding speeds typically used in automated welding. The same equipment can be used for a wide variety of welding tasks and applications.
- A comprehensive, completely balanced package from one supplier results in significant savings in time and effort when integrating the arc-welding package with the robot application.
- Suitable for any industry using robotic welding for thin and thick mild steel, stainless steel, and aluminum components.
- Enhanced arc ignition functionality (Touch Sense Ignition) delivers minimum spatter and stabilizes the arc immediately after ignition.
- The robust wire feeding casing with integrated wire feeder controller electronics enables faster and more accurate control with better resistance to external interference.
- An integrated gas-flow sensor in the wire feeder enables the shielding gas flow to be monitored closer to the arc by default – no need for additional sensors.
- Search voltage level for the system can be set up freely from web browser interface

TECHNICAL SPECIFICATIONS

	A7 Power Source 350	A7 Power Source 450
Product code	6201350	6201450
Connection voltage 1~ 50/60 Hz	N/A	N/A
Connection voltage 3~ 50/60 Hz	400 V, -15 %...+20 %	400 V, -15 %...+20 %
Fuse (delayed)	25 A	35 A
Minimum generator power	35 kVA	35 kVA
Welding range	20 A / 12 V - 350 A / 46 V	20 A / 12 V - 450 A / 46 V
Output 60% ED	350 A	450 A
Output 100% ED	330 A	350 A
Mains connection cable	4G6 (5 m)	4G6 (5 m)
Supply current (maximum)	23 A	32 A
Supply current (effective)	21 A	25 A

	A7 Power Source 350	A7 Power Source 450
Idle power	25 W	25 W
Power factor at max. current	0.85	0.88
No-load voltage (peak)	U ₀ = 80 V - 98 V	U ₀ = 80 V - 98 V
Open circuit voltage (average)	85 V -103 V	85 V -103 V
Efficiency (100 % duty cycle)	87 %	87 %
Minimum short circuit power S _{sc} of supply network	5.5 MVA	5.5 MVA
Max apparent power	22 kVA	22 kVA
Power supply for cooling unit	24 V DC / 50 VA	24 V DC / 50 VA
Power supply for auxiliary unit	50 V DC / 100 W	50 V DC / 100 W
Operating temperature range	-20 ... +40 °C	-20 ... +40 °C
External dimensions LxWxH	610 × 240 × 520 mm	610 × 240 × 520 mm
Weight (no accessories)	40.2 kg	40.2 kg
Degree of protection	IP23S	IP23S
Weight (with connection cable)	42.6 kg	42.6 kg
EMC class	A	A
Storage temperature range	-40 ... +60 °C	-40 ... +60 °C
Temperature class	155 (F)	155 (F)

	A7 Wire Feeder 25	A7 Wire Feeder 25 -PP
Product code	6203510	6203502
Wire feed mechanism	4-roll, two motors	4-roll, two motors
Wire feed speed adjustment	0.5 – 25 m/min	0.5 – 25 m/min
Gun connection	Euro	PP
Filler wire sizes (Fe solid)	0.8 – 1.6 mm	0.8 – 1.6 mm
Filler wire sizes (Fe cored)	1.0 – 1.6 mm	1.0 – 1.6 mm
Filler wire sizes (Ss)	0.8 – 1.6 mm	0.8 – 1.6 mm
Filler wire sizes (Al)	1.0 – 2.4 mm	1.0 – 2.4 mm
Filler wire sizes (CuSi)	0.8 – 1.2 mm	0.8 – 1.2 mm
Operating voltage (safety voltage)	50 V DC	50 V DC
Operating temperature range	-20 ... +40 °C	-20 ... +40 °C
External dimensions LxWxH	380 × 250 × 170 mm	380 × 250 × 170 mm
Weight (no accessories)	7.8 kg	7.8 kg
Degree of protection	IP21S	IP21S
EMC class	A	A
Storage temperature range	-40 ... +60 °C	-40 ... +60 °C

A7 Cooler

Product code	6068220 Cooling liquid - 10 liter can - SP9810765
Operating voltage (safety voltage)	400 V -15 ...+20 %
Maximum pressure	0.4 Mpa

A7 Cooler

External dimensions LxWxH	570 x 230 x 280 mm
Weight (no accessories)	11 kg
Degree of protection	IP23S
Tank volume	~3 l
EMC class	A
Cooling power	1 kW
Storage temperature range	-40 ...+60 °C
Operating temperature	-20 ...+40 °C
Flow sensor type	[l/min]

Welding gun cleaning station

Product code	SP600674 Equipped with wire cutter, gas nozzle inside reamer and anti-spatter spray unit; order code includes reamer setup for both gas and water cooled nozzles.
Operating voltage	10 to 30 V DC
Weight	22 kg
Nominal pressure	6 bar 88 psi
Nominal flow	Approx. 500 l/min
Operating pressure	6 – 8 bar / 88 - 116 psi
Nominal rotational speed	800 rpm
Max. Wire size	1.6mm (by 6 bar 7 88 psi air pressure)
Ambient temperature	+5° to +50°C
Protection	IP 21
5/2 way valves	
Rated voltage	24 V DC
Power consumption	4.5 W (EACU)
Permitted residual ripple	Vpp < 10%
Continuous current	Max. 200 mA
Current consumption	approx. 4 mA (24 V)
Voltage drop	approx 1.2 V (200 mA)