

# KempArc SYN



## BENEFITS

- Robot interface integrated in the power source
- Easy programming with the synergic welding programs and 90 memory channels
- Fast fieldbus-based communication guarantees integration with all common robot brands
- Available in digital and analogue models for varied integration possibilities
- Compact and lightweight wire feed mechanism

## TECHNICAL SPECIFICATIONS

### KempArc SYN 500 Power source

Product code	KempArc SYN 500 (digital) - 6201500 KempArc SYN 500 (analogue) - 6201500AN
Connection voltage 3~ 50/60 Hz	400 V -15...+20%
Fuse (delayed)	35 A
Minimum generator power	27kVA (60%) 20kVA (100%)
Welding range	10 ... 42 V
Open circuit voltage	50 V
Rated power 60% ED	26,1 kVA
Rated power 100% ED	20,3 kVA
Primary current 50% ED I1max	40,0 A
Primary current 100% ED I1	31,0 A
Connection cable size	6 mm <sup>2</sup>
Idle power (no load power)	25 W
Efficiency	87%
Power factor	0,9
Voltage supply for auxiliary devices	50 V
Auxiliary device supply fuse (X14, X15)	6, 3 A delayed
Voltage supply for the cooling device	1-ph 400 VAC/250 VA
Max. welding voltage	46 V
Max. output current	500 A (60 %)

**KempArc SYN 500 Power source**

Operating temperature range	-20 ... +40 °C
External dimensions LxWxH	590 × 230 × 500 mm
Weight (no accessories)	37 kg
Degree of protection	IP23C
EMC class	A
Storage temperature range	-40 ... +60 °C

	<b>DT400 Wire feeder</b>	<b>DT410 Wire feeder</b>
Product code	6203400 / 6203400L	6203410
Rated power	100 W	100 W
Filler wires	0.8...1.6 mm	0.8...1.6 mm
Wire feed speed	0...25 m/min	0...25 m/min
Operating voltage	50 VDC	50 VDC
Operating temperature range	-20...+40°C	-20...+40°C
Degree of protection	n IP23S	n IP23S
External dimensions	269 x 175 x 169 mm	269 x 175 x 169 mm
EMC class	A	A
Weight	4.5 kg	4.5 kg
Loadability	40°C 100%ED 500 A	40°C 100%ED 500 A
Welding gun connector	Euro	PowerPin

**KempCool 10**

Product code	6208100 Cooling liquid - 10 liter can - SP9810765
Connection voltage 3~ 50/60 Hz	400 V -15...+20%
Rated power	250 W (100 %)
Rated power 100% ED	250 W
Cooling liquid	20 - 40% Monopropylenglycol - water
Max. pressure at output	0,4 MPa
Operating temperature range	-20 ... +40 °C
External dimensions LxWxH	570 × 230 × 280 mm
Weight (no accessories)	11 kg
Degree of protection	IP23S
EMC class	A
Cooler tank volume	3 l
Cooling power	1 kW
Storage temperature range	-40 ... +60 °C

**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)