

# *Origo™ Mig 4002c/5002c/6502c*

# *Aristo™ Mig 4002c/5002c/6502c*

## *Flexible heavy duty solution*

### Robust and powerful

Mig 4002c, 5002c, and 6502c are sturdy and robust switching converter (chopper) power sources intended for heavy duty applications.

MIG/MAG and MMA are the main processes – process selection being related to the choice of control panel, Origo™ MA23, Origo™ MA24 or Aristo™ MA6.

Well proven technology together with ESAB developed software provides a high reliability and outstanding welding performance.

The unit is constructed using a strong metal casing to withstand harsh environments. The large wheels, sturdy lifting eyelets and an under carriage designed for transport by forklift makes the unit easy to move.

The digital (CANbus) communications and control system means less cables, which in turn increases operational reliability.

ESAB LogicPump (ELP) The patented ESAB LogicPump, ELP automatically starts the cooling water pump in the machine when a water cooled torch is connected to either the wire feeder **Origo™ Feed 3004**, **Origo™ Feed 4804** or **Aristo™ YardFeed 2000**. This helps to eliminate the risk of over-heating the welding torch. When a self-cooled torch is used, the pump is automatically shut off giving a lower noise level and longer working life for the cooling pump.

### Flexibility

The power sources are optimised to operate together with the wire feeders **Origo™ Feed 3004**, **Origo™ Feed 4804** and **Aristo™ YardFeed 2000**. Extended connection cables can provide a working radius of up to 35 meter to suit all your individual welding needs.

**The TrueArcVoltage™ System**, in combination with an ESAB PSF™ torch, guarantees that you will weld with the correct arc voltage independent of any voltage drop in the welding cables. This means that you will get the same arc voltage and weld result regardless of whether you are using a short connection cable or extended cables with up to a 35 meter working radius.



### Applications

- Civil construction
- Mobile machinery
- Foundries
- Pipe workshops
- Ship and Offshore yards

- **Reliable and smooth starts and ends** supported by efficient hot-start and crater fill functions.
- Efficient Man Machine Communication via the user-friendly control panels **Origo™ MA23**, **Origo™ MA24** and **Aristo™ MA6**.
- **Wide range** of pre-programmed **synergic lines (MA24 and MA6)**.
- **Memory** for 3 (MA23/24) or 10 (MA6) welding parameters.
- **QSet™ function** in the MA24 panel which provides a unique, automatic way of setting welding parameters in short arc without synergic lines.
- **ESAB LogicPump ELP**, secures automatic start of water pump by connection of a water cooled welding gun.
- **TrueArcVoltage™ System**, measures the correct arc voltage value independent of the length of the connection, return cable or welding gun.
- **Multivoltage** - ready to work anywhere.
- **Dust filter** to handle tough and dirty environments and to prevent grinding-dust and metal particles from entering the chassis

## Technical data

	Origo™ Mig 4002c	Origo™ Mig 5002c	Origo™ Mig 6502c
<b>Mains voltage V, Hz</b> multivoltage versions:	-----230/400-415/500V 50Hz	400-415, 3~ 50/60 ----- 230/430-460 60Hz-----	
<b>Permitted load at</b>			
60% duty cycle A/V	400 / 34	500 / 39	650 / 44
100% duty cycle A/V	310 / 30	400 / 34	500 / 39
<b>Setting range (DC) A/V MIG/MAG</b>	16 - 400 / 8-60	16 - 500 / 8-60	16 - 650 / 8-60
<b>MMA A</b>	16- 400	16 - 500	16 -650
<b>Open circuit voltage V</b>			
MIG/MAG	62	62	62
MMA	68	68	68
<b>Open circuit power W</b>	500	550	670
with cooling unit W	700	750	870
in energy saving mode, 15 min. after welding W		60	
<b>Power factor</b> at maximum current	0,88	0,90	0,90
<b>Efficiency</b> at maximum current %	70	72	76
<b>Control voltage V, Hz</b>	42, 50/60	42, 50/60	42, 50/60
<b>Dimensions l x w x h mm</b>	830 x 640 x 835	830 x 640 x 835	830 x 640 x 835
<b>Weight kg</b>	149	185	222
with cooling unit kg	163	199	236
<b>Operating temperature</b>	-10 till +40°C	-10 till +40°C	-10 till +40°C
<b>Enclosure class</b>	IP 23	IP 23	IP 23
<b>Application classification</b>	S	S	S

## Ordering information

Origo™ Mig 4002c (400-415V 50/60Hz)	0349 311 300
Origo™ Mig 4002c (230/400-415/500V 50Hz ; 230/440-460 60Hz)	0349 311 310
Origo™ Mig 4002cw (400-415V 50/60Hz)	0349 309 780
Origo™ Mig 4002cw (230/400-415/500V 50Hz ; 230/440-460 60Hz)	0349 311 320
Origo™ Mig 5002c (400-415V 50/60Hz)	0349 311 330
Origo™ Mig 5002c (230/400-415/500V 50Hz ; 230/440-460 60Hz)	0349 311 340
Origo™ Mig 5002cw ( 400-415V 50/60 Hz)	0349 311 350
Origo™ Mig 5002cw (230/400-415/500V 50Hz ; 230/440-460 60Hz)	0349 311 360
Origo™ Mig 6502c (400-415V 50/60Hz)	0349 311 370
Origo™ Mig 6502c (230/400-415/500V 50Hz ; 230/440-460 60Hz)	0349 311 380
Origo™ Mig 6502cw (400-415V 50/60 Hz)	0349 311 390
Origo™ Mig 6502cw (230/400-415/500V 50Hz ; 230/440-460 60Hz)	0349 311 400

### Accessories:

Air filter	0349 302 252
Transformer for CO <sub>2</sub> -heater	0349 302 250
Water flow guard	0349 302 251
Strain relief for interconnection cables	0349 311 700
Cable holder kit	0349 303 362

**Delivery content:** 5m mains cable, wheels, return cable with clamps, gas bottle platform, guide pin for the wire feeder and instruction manual.

## Interconnection cables 10 pole

70 mm <sup>2</sup>	Air-cooled	Water-cooled
1.7 m 10 pole	0459 528 780	0459 528 790
5.0 m 10 pole	0459 528 781	0459 528 791
10.0 m 10 pole	0459 528 782	0459 528 792
15.0 m 10 pole	0459 528 783	0459 528 793
25.0 m 10 pole	0459 528 784	0459 528 794
35.0 m 10 pole	0459 528 785	0459 528 795
95 mm <sup>2</sup>	Air-cooled	Water-cooled
1.7 m 10 pole	0459 528 980	0459 528 990



### Quality accessories for the quality welder

ESAB offers a wide range of accessories. The complete range, along with product information, is available at our local web-sites, look at [www.esab.com](http://www.esab.com) or contact your local ESAB dealer.

### Unrivalled service and support

Our commitment and ability to deliver the expected service and support starts immediately after the order is confirmed. We endeavour to offer our customers an After Sales service, which is second to none. A strong and skilful service organisation is prepared to offer service and maintenance, calibration, validation and upgrading of equipment and software.

The service organisation will offer standardised solutions for the reconditioning or modification of existing products.

Spare and wear parts are manufactured according to ESAB's quality plan. Exchange Printed Circuit Board (PCB), exchange modules and components are available for all our products in order to reduce downtime to an absolute minimum. ESAB is continuously upgrading authorised service partners for local service support. Customers who have their own service and maintenance personnel will always be offered a service-training package as part of a total ESAB offering. However, product and process training for end-users will form an additional part of the ESAB offering. Always ask your ESAB sales representative or distributor for a complete ESAB solution.



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