



# LAF 631/1001/1251/1601

## DC power sources for submerged arc welding (SAW) or gas metal arc welding (GMAW)

- Three-phase, fan-cooled DC welding power sources designed for high productivity automated submerged arc welding (SAW) or high productivity gas metal arc welding (GMAW).
- Used in combination with ESAB's A2-A6 equipment range and the A2-A6 PEK or A2 PEI process controllers.
- Good arc stability at both high and low arc voltages.
- Adjust and monitor the welding parameters on the power source from the front panel of the process controller (PEK or PEI).
- Welding current range can be extended by connecting two power sources in parallel for the most demanding applications.
- Power source prepared for communication using most standard protocols like TCP/IP (LAN), CAN or even straight communication with a PLC. Optional communication modules might be needed depending on the type of protocol used.
- Ideal for SAW applications such as wind tower components, nuclear power vessels, boilers and ship building applications
- Ideal for GMAW applications such as welding the root pass in heavy pipe production.



### Ordering Information

LAF 631	0460 512 880
LAF 1001	0460 513 880
LAF 1251	0460 514 880
LAF 1601	0460 515 880

### Options & Accessories

#### A2-A6 process controller PEK

Control cable, 15 m (49 ft.)	0460 910 881
Control cable, 25 m (82 ft.)	0460 910 882
Control cable, 35 m (115 ft.)	0460 910 883
Control cable, 50 m (164 ft.)	0460 910 884

#### A2 process controller PEI

Control cable, 15 m (49 ft.)	0449 500 880
Control cable, 25 m (82 ft.)	0449 500 881
Control cable, 35 m (115 ft.)	0449 500 882
Control cable, 50 m (164 ft.)	0449 500 883
Control cable, 75 m (246 ft.)	0449 500 884
Control cable, 100 m (328 ft.)	0449 500 885
Wheel set LAF 631	0457 787 880



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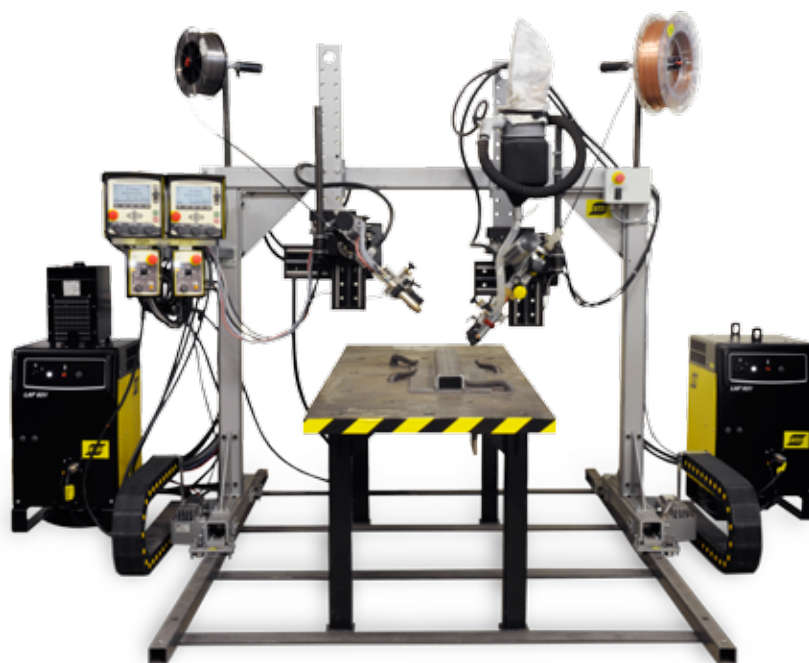
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## Specifications

	LAF 631	LAF 1001	LAF 1251	LAF 1601
Mains supply, 3 ph 50 Hz, V	400/415	400/415/500	400/415/500	400/415/500
Mains supply, 3 ph 60 Hz, V	440	400/440/550	400/440/550	400/440/550
Current 100%, 50/60 Hz, A	52	64/64/52	99/99/80	136/136/108
Fuse, slow, 50/60 Hz, A	63	63	100/100/80	160/160/125
Maximum load at:				
100% duty cycle, A/V	630/44	800/44	1250/44	1600/44
80% duty cycle, A/V	-	-	-	-
60% duty cycle, A/V	800/44	1000/44	-	-
Setting range, A/V				
GMAW	50/17-630/44	50/17-1000/45	60/17-1250/44	-
SAW	30/21-800/44	40/22-1000/45	40/22-1250/44	40/22-1600/46
Open circuit voltage, V	54	52	51	54
Open circuit power, W	150	145	220	220
Efficiency	0.84	0.84	0.87	0.86
Power factor	0.90	0.95	0.92	0.87
Enclosure class	IP23	IP23	IP23	IP23
Dimensions, LxWxH, mm (in.)	670x490x930 (26x19x37)	646x552x1090 (25x22x43)	774x598x1428 (30.5x23.5x56)	774x598x1428 (30.5x23.5x56)
Weight, kg (lbs.)	260 (573)	330 (727.5)	490 (1080)	585 (1290)
Application class	S	S	S	S

**S** This symbol indicates that the welding power source may be used in areas with an increased electrical hazard, e.g. areas where the electrical hazard is increased due to the proximity to earthed metal objects and/or dampness.



LAF 631 in combination with MechTrac and GMH