

# LAF 631, 1001, 1251 & 1601

## DC power sources for SAW and GMAW



- Three-phase, fan-cooled DC welding power sources for high productivity automated submerged arc welding (SAW) or gas metal arc welding (GMAW)
- Used with ESAB's A2-A6 equipment range and 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 PEK or PEI process controller
- Extended welding current by connecting two power sources in parallel for 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 windtower components, nuclear power vessels, boilers, and shipbuilding applications
- Ideal for GMAW applications such as welding the root pass in heavy pipe production



### Ordering Information

LAF 631 .....	0460512880
LAF 1001 .....	0460513880
LAF 1251 .....	0460514880
LAF 1601 .....	0460515880

### Options & Accessories

#### A2-A6 PEK Process Controller

Control cable, 49 ft. (15 m) .....	0460910881
Control cable, 82 ft. (25 m) .....	0460910882
Control cable, 115 ft. (35 m) .....	0460910883
Control cable, 164 ft. (50 m) .....	0460910884

#### A2 PEI Process Controller

Control cable, 49 ft. (15 m) .....	0449500880
Control cable, 82 ft. (25 m) .....	0449500881
Control cable, 115 ft. (35 m) .....	0449500882
Control cable, 164 ft. (50 m) .....	0449500883
Control cable, 246 ft. (75 m) .....	0449500884
Control cable, 328 ft. (100 m) .....	0449500885

Wheel set LAF 631 ..... 0457787880



### ESAB Welding and Cutting Products

USA: [www.esabna.com](http://www.esabna.com) / 1.800.ESAB.123 | Canada: [www.esab.ca](http://www.esab.ca) / 1.877.935.3226 | Mexico: [www.esab.com.mx](http://www.esab.com.mx) / (81) 8305-3700

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### Specifications

	LAF 631	LAF 1001	LAF 1251	LAF 1601
Mains supply: 3 ph, 50 Hz, V 3 ph, 60 Hz, V	400/415 440	400/415/500 400/440/550	400/415/500 400/440/550	400/415/500 400/440/550
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 80% duty cycle, A/V 60% duty cycle, A/V	630/44 - 800/44	800/44 - 1000/44	1250/44 - -	1600/44 - -
Setting range, A/V: GMAW SAW	50/17-630/44 30/21-800/44	50/17-1000/45 40/22-1000/45	60/17-1250/44 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, in. (mm)	26x19x37 (670x490x930)	25x22x43 (646x552x1090)	30.5x23.5x56 (774x598x1428)	30.5x23.5x56 (774x598x1428)
Weight, lbs. (kg)	573 (260)	727.5 (330)	1080 (490)	1290 (585)
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.