



# ***ESAB DC Arc Power***

## ***Power sources***

### ***LAF 635, 1000, 1250 and 1600***

The LAF series are remote-controlled, three phase, fan-cooled welding power sources designed for high productivity mechanized Submerged or MIG/MAG arc welding. They are used in combination with ESAB's A2/A6 Process Controllers (PEH or PEI) and equipment range.

LAF welding power sources have excellent welding characteristics throughout the entire current and voltage range, with particularly good starting and re-ignition properties. These power sources demonstrate good arc stability at both high and low arc voltages.

The welding power source can be adjusted and monitored from the front panel of the process controller (PEH or PEI), which permits easy adjustment of all welding parameters. Preset welding parameters can be monitored and adjusted during welding.

The welding power sources are protected against overload by a thermal cut-out. When it trips, a yellow lamp on the front panel is illuminated. The cut-out is automatically reset when the temperature drops to an acceptable level.

The welding current range can be extended by connecting two power sources in parallel.



#### **Applications**

##### **Submerged arc welding**

The excellent welding characteristics of the LAF series make these power sources ideal for submerged arc welding.

##### **MIG/MAG welding**

LAF power sources produce a stable arc at very low currents and voltages. This means that they are also ideal for MIG and MAG welding.

Technical data	LAF 635	LAF 1000	LAF 1250	LAF 1600
Voltage, 3 ph 50 Hz, V	400/415	400/415/500	400/415/500	400/415/500
Voltage, 3 ph 60 Hz, V	440	400/440/550	400/440/550	400/440/550
Current A 100%, 50 Hz	52	64/64/52	99/99/80	136/136/108
Current A 100% 60 Hz	52	64/64/52	99/99/80	136/136/108
Cable area mm <sup>2</sup> , 50 Hz	4x16	4x16	3x35+25/3x35+25/3x25+16	3x70+35/3x70+35/3x50+35
60 Hz	4x16	4x16	3x35+25/3x35+25/3x25+16	3x70+35/3x70+35/3x70+35
Fuse, slow A, 50 Hz	63	63	100/100/80	160/160/125
60 Hz	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				
MIG/MAG	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	670x490x930	646x552x1090	774x598x1428	774x598x1428
Weight, kg	260	330	490	585
Application class	<span style="border: 1px solid black; padding: 2px;">S</span>	<span style="border: 1px solid black; padding: 2px;">S</span>	<span style="border: 1px solid black; padding: 2px;">S</span>	<span style="border: 1px solid black; padding: 2px;">S</span>
Ordering information	0457 350 880	0456 321 881	0456 323 880	0456 324 880

Complement technical data	LAF 1000M	LAF 1250M	LAF 1600M
Voltage, 3 ph 50 Hz, V	230/400/415/500	230/400/415/500	230/400/415/500
Voltage, 3 ph 60 Hz, V	230/400/440/550	230/400/440/550	230/400/440/550
Current A 100%, 50 Hz	111/64/64/52	171/99/99/80	235/136/136/108
60%	138/80/80/65	-	-
Current A 100% 60 Hz	111/64/64/52	171/99/99/80	235/136/136/108
60%	138/80/80/65	-	-
Cable area mm <sup>2</sup> , 50 Hz	4x50/4x16/4x16/4x16	3x70+35/3x35+25/3x35+25/3x25+16	3x120+70/3x70+35/3x70+35/3x50+35
60 Hz	4x50/4x16/4x16/4x16	3x70+35/3x35+25/3x35+25/3x25+16	3x120+70/3x70+35/3x70+35/3x70+35
Fuse, slow A 50 Hz	125/63/63/63	160/125/125/80	200/160/160/125
Fuse, slow A 60 Hz	125/63/63/63	160/100/100/80	200/160/160/125
Ordering information	0456 321 882	0456 323 881	0456 324 881

For more technical information, see LAF 1000, LAF1250 and LAF 1600

### Ordering information

	PEH	PEI
Control cable 15 m	0449 449 880	0449 500 880
Control cable 25 m	0449 449 881	0449 500 881
Control cable 35 m	0449 449 882	0449 500 882
Control cable 50 m	0449 449 883	0449 500 883
Control cable 75 m	0449 449 884	0449 500 884
Control cable 100 m	0449 449 885	0449 500 885
Set of wheels LAF 635	0457 787 880	

### These welding power sources comply with the requirements of EN 60974-1 and IEC 974-1

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

Equipment marked IP 23 is designed for indoor and outdoor use.

ESAB reserves the right to alter specifications without prior notice  
ESAB is approved according to ISO 9001:2000



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