



ESAB Arc Power

Automatic Welding Transformers

TAF 800 and 1250

The TAF 800 and TAF 1250 are using square wave technology suitable for a wide range of welding applications.

- Capacity for continuous welding
- Pre-setting of arc voltage
- Reliable Square wave striking
- Arc voltage or current Feed Back
- Optimized open circuit voltage
- Compensation of mains voltage fluctuation
- Voltage drop compensation for long welding cables
- High power factor ensuring low power consumption
- Designed and built for convenient servicing
- Safety control voltage 42 V
- Prepared for Scott connection of two power sources

Good welding properties

The ESAB automatic welding transformers convert the secondary voltage from a sinus wave, via a thyristor controlled rectifier bridge, to a square wave arc voltage with excellent arc strike characteristics and with good welding properties. Submerged-arc welding with heavy solid wires requires a power source of high capacity. The TAF Square wave power sources, make use of the advantages of alternating current:

- No arc blow
- High productivity using Multi-electrode system



Pre-setting of welding data

The TAF 800 and 1250 power sources are prepared for pre-setting of welding data from the Process Controller PEH used in ESAB automatic systems A2 and A6.

Voltage drop compensation

The characteristics of the power source admit connection of 100 meter cables with full compensation of any voltage drop. That means a new standard for dimensioning AC power sources of automatic welding. The choice is easy, no extra capacity is required - it is already there.

Technical data	TAF 800	TAF 1250
Voltage, 1 ph, 50 Hz, V	400/415/500	400/415/500
Voltage, 1 ph, 60 Hz, V	400/440/550	400/440/550
Maximum load at 100% duty cycle, A/V	800/44	1250/44
60% duty cycle, A/V	1000/44	1500/44
Setting range, A/V	300/28-800/44	400/28-1250/44
Open circuit voltage, V	71	72
Open circuit power, W	230	230
Efficiency	0.86	0.86
Power factor	0.75	0.76
Enclosure class	IP 23	IP 23
Application class	S	S
Dimensions LxWxH, mm	774x598x1428	774x598x1428
Weight, kg	495	608
Ordering information	0456 325 880	0456 326 880

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.

Ordering information

Control cable 15 m	0449 449 880
Control cable 25 m	0449 449 881
Control cable 35 m	0449 449 882
Control cable 50 m	0449 449 883
Control cable 75 m	0449 449 884
Control cable 100 m	0449 449 885



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