

Weldac[®] 800



Less power consumption, a smaller footprint and easier operation are three hallmarks of the latest generation of Weldac systems. These features, coupled with the reliability of IGBT transistors, translate into:

More uptime

EFD Induction's patented switching pattern lets Weldac use rugged IGBT transistors. These transistors are virtually short-circuit proof, considerably boosting Weldac's reliability.

More output

Continuous electronic load matching secures full power output across a wide range of tube sizes, ensuring maximum welding speed for each size. No operator action is needed, simply change the coil size.

Lower costs

Weldac's efficiency from input at the rectifier to output at the coil is 85-87%. Cooling water consumption is low, with no need for expensive de-ionized water. Weldac eliminates the need for costly reactive power compensation capacitors by using diode rectifiers that result in a high, constant power factor (0.95) at all power levels.



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PRODUCT FEATURES

Modular design

Modular design with independent full-bridge IGBT inverters makes Weldac compact, saving valuable floor space and simplifying in-line integration and retrofitting. The high-power Weldac is housed in a two-cabinet design.

Power savings

Weldac features a diode rectifier with a constant power factor of 0.95 at all power levels. There is no reactive power cost, and no need for compensating capacitors.

Rugged IGBT transistors

Our patented driver technology lets Weldac use standard reliable IGBT transistors for better uptime and output.

Full output power

Weldac's automatic load matching ensures full output power across a wide range of tube sizes. There are no 'unsafe' operating areas. When a different-sized coil is fitted, Weldac automatically matches to the best setting.

Clean weld bead

Weldac's low ripple results in a clean weld bead—making it ideal for stainless steel and aluminum welding.

Short circuit resistant

IGBT transistors, together with an advanced switching pattern and intermediate transformer design, make Weldac short-circuit resistant.

Advanced MMI

Weldac features the latest in Man/Machine Interface (MMI) control panels. Moreover, Weldac can operate with most currently available major bus interfaces.



OPTIONS / ADDITIONALS

One- or three-axis positioning tables, water/water, plate-type heat exchanger, quality monitoring system (QMS), field bus communication, temperature monitoring/control systems, input auto transformer, tacho generator, impeders and coils.

TECHNICAL DATA

| Model | Weldac 800 |
|-------------------------------|---------------------|
| Output | |
| Continuous output power | 800 kW |
| Output power regulation range | 10-100 % |
| Frequency range | 150-240 kHz |
| Efficiency | > 0.85 |
| Supply | |
| Supply voltage range | 3x 480 V \pm 10% |
| Frequency | 50/60 Hz |
| Nominal line current | 1320 A (RMS) |
| Nominal apparent power | 1000 kVA |
| Power factor (cos ϕ) | > 0.95 |
| Cooling | |
| Water consumption, min. | 170 l/min |
| Water inlet temperature | max. 35°C |
| Water pressure min./max. | 4.5/6 bar |
| Cooling water quality - ph | between 7.0 and 9.0 |

Enclosure

| | |
|-----------------------------------|------------------|
| Ambient operating temp. | +5°C - +50°C |
| Dimensions REC excl. busb.(LxWxH) | 1200x600x2100 mm |
| Dimensions IMC (LxWxH) | 2420x800x2253 mm |
| Busbar length to coil connection | 840 mm |
| Weight REC | 615 kg |
| Weight IMC | 1880 kg |
| Enclosure protection | IP 54 |
| Color | RAL 7035 Grey |

Subject to modification