



INDUSTRY 4.0
READY

ICoS Induction Compact System



Compact



Efficient



Robust



Cost Effective

ICoS Induction Compact System

FIRST INDUCTION HEATING UNIT DESIGNED FOR OEM

ICoS is developed for being integrated in an electrical cabinet, as any other motor drive. It offers a wide frequency range, from 1 kHz to 40 kHz.

Its main features:

- Compact design
- Air or water cooled
- Fieldbus connection:



or **EtherNet/IP**

ICoS, which means flexibility and integration, is a **compact power supply** designed to be integrated into an automated production system, where induction heat treatment with power up to 20kW is required.

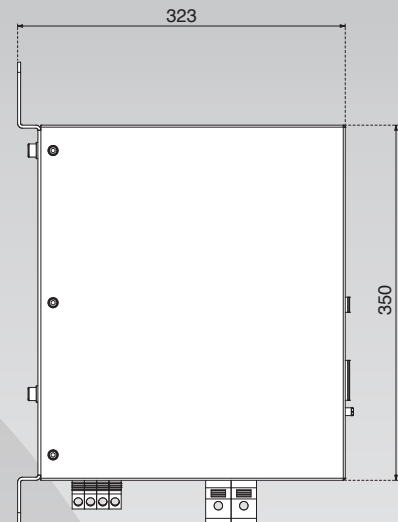
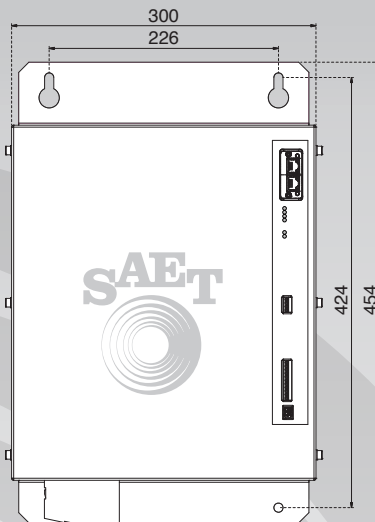
ICoS can be installed inside an electrical cabinet with the same simplicity as an electric or a motor drive, being dedicated to the automation of mechanical processes, in which one of the phases is the heat treatment of the pieces. Liquid cooling (if available in the host equipment) or forced air, small size (300x350x323mm), connectivity and ease of use are the cornerstones of the flexibility of **ICoS**.

Three-phase power feeding and + 24V (in addition to the fluidic cooling equipment, if provided for) are the only electric inputs necessary for **ICoS**: it will be sufficient to connect the suitable inductor to the power output – directly or through a transformer... and the generator will be ready for use.

The compact power supply inside the host system is managed with an ethernet cable via fieldbus (PROFINET or Ethernet IP). For more flexibility, it is possible a direct management from the browser, via web server or via external digital analog I/O.

ICoS is Industry 4.0 compliant.

ICoS - Induction Compact System



TECHNICAL INFO

System operating voltage	From 380 to 480 - 3 phase
System operating frequency	50/60 Hz
Protection degree	IP 21
Maximum output	130 A
Output frequency	Up to 40 KHz
Output power	5 / 10 / 20 / 30 kW

EFFICIENCY

ICoS is a voltage source inverter especially designed to achieve best in class efficiency.

ARCHITECTURE

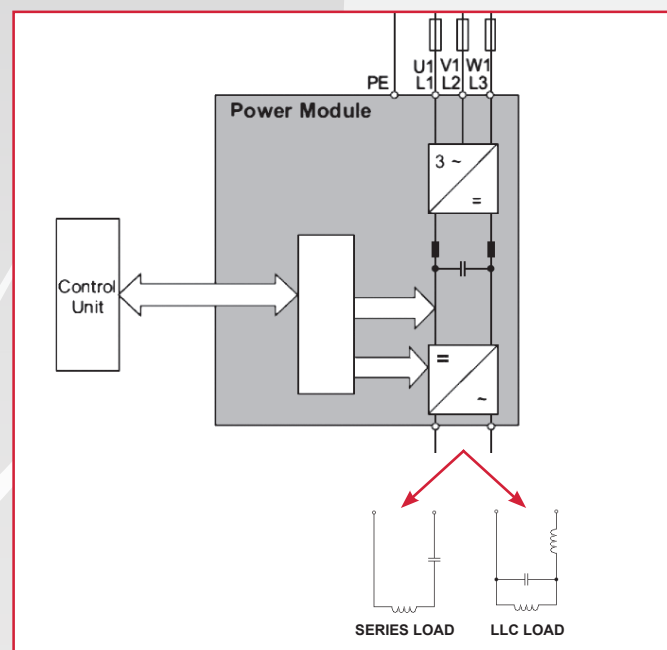
ICoS has been engineered in order to be integrated in your standard electrical cabinet. Its structure is similar to a standard motor drive. All functions are available through a fieldbus connection.

Those are the most important features:

- Internal web server for easy configuration
- Full digital control
- Fieldbus connection: **PROFINET** or **EtherNet/IP**

FLEXIBILITY

- ICoS is proposed with options that can be used to customize your process.
- You can choose from several lengths of HF wires, transformers and capacitors.
- ICoS can be configured to drive series or parallel loads, or any type of output transformers.
- SAET process engineering can help you in the selection of the most appropriate solutions for your specific needs.



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