



Bidirectional DC/DC power converter to build many type of innovative solutions!

📞 Telecom

📊 Datacom

🚆 Mass transport

🏭 Industry

⚡ Power Utilities

🌿 Renewable

DC 1
48 & 380
Vdc

DC 2
380 Vdc

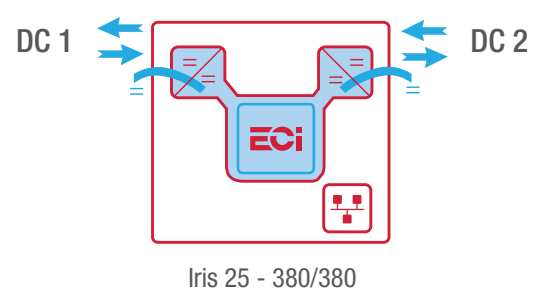
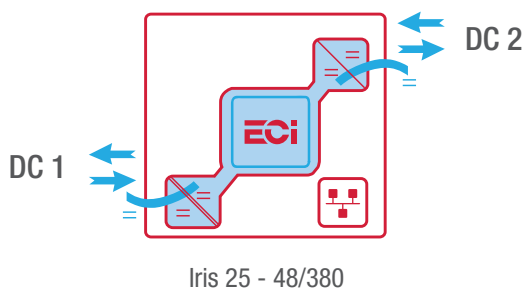
Power
2.4* & 2.5**
kW

up to
80 kW

* 48/380 Vdc version
** 380/380 Vdc version

DC/DC converter?

Based on the topology of our modules and our experience in building many types of power converters since 1934, we have developed Iris, a range of bidirectional DC/DC converters. Using the same form factor as our power converter, Iris is made up of **two bidirectional DC ports**. The product exists in **two versions: 48/380 Vdc** (with double isolation) and **380/380 Vdc**.



Iris is also **hot-swappable** for an easy installation and repair process. The modular approach gives you the opportunity to **increase the power as you grow**. Just plug in new modules to meet your evolving needs.

To do what?

Iris is designed to supply and **secure DC loads**, **charge batteries** or convert the **DC (48 or 380V)** of your infrastructure into another **DC (380 or 48V)**, more suitable for batteries for example.

But Iris is also a key component for all the **new innovative solutions** that we have designed on the basis of a **DC Bus**. The advantages of using this type of DC distribution are mainly to supply and secure **remote loads** while minimizing **energy losses**. The Iris is used for:

- Power Fusion: innovative solution to share power within IT racks in **data centers** ([more info](#));
- Metro Grid: the easiest way to connect and power remote **5G antennas** in cities ([more info](#)).
- Large buildings: to create a redundant **backup** solution with **shared batteries** to reduce costs.
- And many more to come.

Do not hesitate to contact us for more details on this product or simply visit our website.

Create a solution

Iris can be **integrated** into all types of solutions we offer: shelves, sub-racks, cabinets, outdoor enclosures, etc. It can be **combined with all the other power converters** that we offer to create the solution that fits your application. We would be happy to assist you in the design of your dedicated solution!

Illustrations are non-binding and may include customized fittings.

Iris 25 - 380 Vdc

General	Iris 25 - 48/380	Iris 25 - 380/380
Part Number	T821730001 / T821730071	T821700001
Cooling / Audible noise	Fan forced cooling / <65db @1meter	
MTBF	240 000 hrs (MIL-2171F)	
Dielectric strength DC / DC	4300 Vdc	No Isolation
RoHS	Compliant	
Operating T° / Relative Humidity (RH) non-condensing	Tested according ETS300-019-2-3 Class 3.1 -40°C to +70°C derating above 50°C to 70°C automatic restart / Max RH 95% for 96 hours per year	
Environment	Compliant to GR3108 Class 2.	
Material (casing)	Aluzinc / Nickel-Zinc coated steel	Aluzinc
DC 1 Data		
Nominal voltage (range)	48 Vdc (32 - 60 Vdc)	380 Vdc (200 - 400 Vdc)*
Nominal current	53.2 A	7.3 A
Maximum current (for 15 seconds)	63.7 A	9.15 A
DC 2 Data		
Nominal voltage (range)	380 Vdc (270 to 400 Vdc)*	
Maximum power	2.4 kW	2.5 kW
Maximum current at 380 Vdc	6.8 A	6.6 A
Reverse polarity protection	YES	
Efficiency DC to DC	> 93.5%	> 94%
Safety & EMC		
Electrical Safety	Module and shelf are UR1778 and 60950	
EMC	EN300386V1.6.1 / FCC part 15 class A pending	

* derating from 200 to 270 Vdc, 1370 W at 200 Vdc

