

Elettra Sincrotrone Trieste



## LWU Magnet Power Converters

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### Elettra's contribution to ESS

#### **LWU Magnet Power Converters (PCs):**

- 133 x Quadrupole PCs, 50 V / 200 A OCEM's "NGPS" model
- 6 x Big Quadrupole PCs, 50 V / 400 A 2 x NGPS in parallel
- 1x Dipole PC, 100 V / 400 A 4 x NGPS "Special" (100 V / 100 A) in parallel
- 144 x Corrector Power Converters Elettra's "A2720" (±20 V / ±20 A)







## **NGPS: Industrial Product**









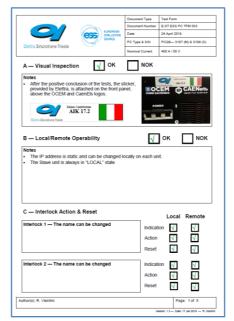
## **NGPS: Quality Assurance**

- Full Documentation (Manuals & Drawings)
- ISO 9001:2008
- CE Marking
- Factory Test protocols and reports
- FAT by Elettra on >25% of PCs
   (PCD1 + 5 out 6 PCQ8 + 27 out 133 PCQx)







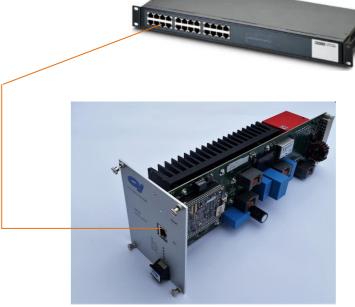


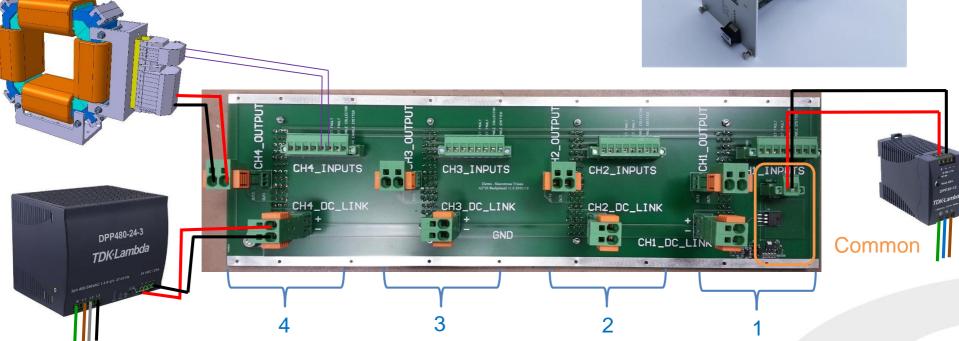




## A2720: The System





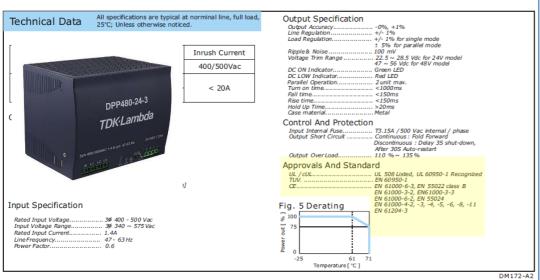




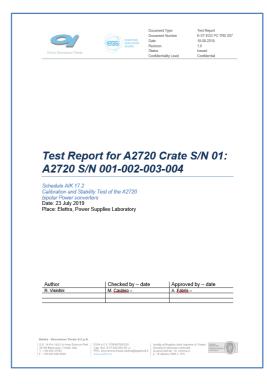
### A2720: Certification



- CE certification process started and running
- Industrial AC/DC units
- Low DC voltage (Max 24 VDC)
- Full Documentation (Test reports, Manuals and Drawings)











## **LWU Magnet PCs: Docs from Elettra**

#### 97 Technical Docs (so far)

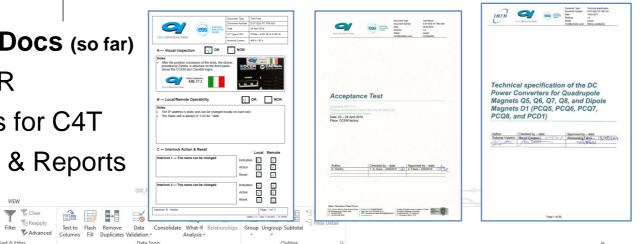
- PDR & CDR
- Tech Specs for C4T

FORMULAS DATA

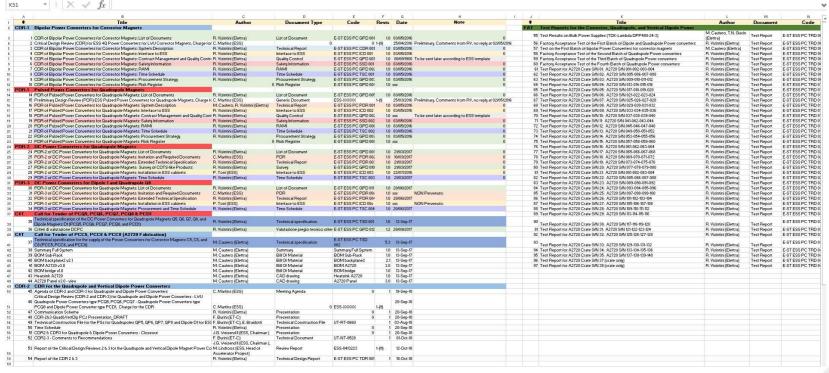
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Test Forms & Reports











# ...any Question?

