

## POWER Box LCL & HTR



The POWER Box is in charge to provide power supply lines towards the UUT simulating the power distribution unit. The box has been designed to host, in any mixed configuration, two kind of plug in modules:

- LCL (Latch current limiter) plug-in
- HTR (Heater) plug-in

The POWER Box is a 3U, 19" modular rackable equipment that can house up to 7 Plug-In modules.

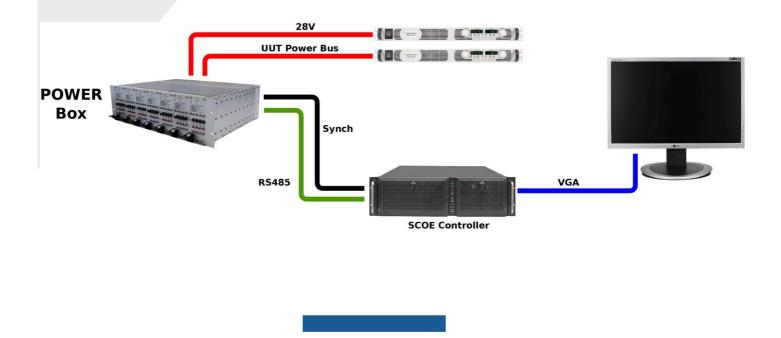
Each plug-in module provides multiple output lines (2 for LCL and 4 for HTR)

The Box shall be powered by a 28V power supply unit to feed the boards electronic and by an independent PSU used to supply power to the UUT.

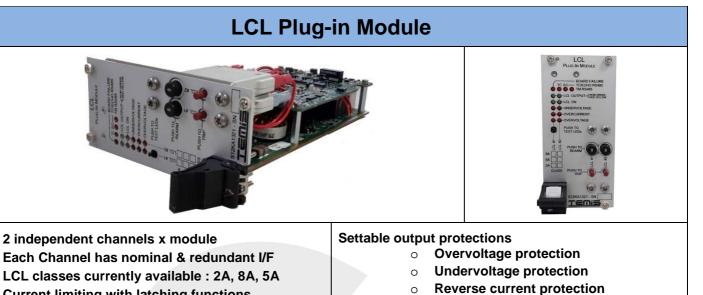
All the output lines share the same power bus but they can be independently enabled/disabled.

## <u>Features</u>

- Up to 7 plug-in modules
- 2 different plug-in modules type available:
  - LCL plug-in module
  - HTR plug-in module
- Rackable 19" box
- Commendable via RS422 bus
- Synchronization with external trigger
- All the I/O are ECSS-E-ST-50-14C compliant
- Commanding SW for PC with "Labview like" MMI





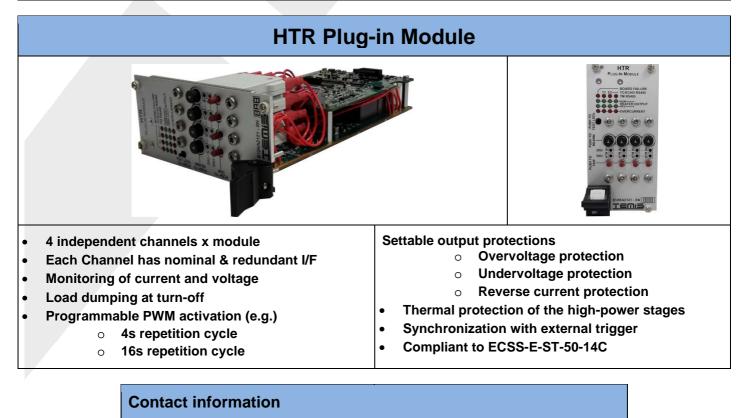


- Current limiting with latching functions
- Monitoring of current and voltage
- Load dumping at turn-off

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- Thermal protection of the high-power stages
- Synchronization with external trigger
- Compliant to ECSS-E-ST-50-14C



TEMIS S.r.I. Via G. Donizetti, 20 20011 IT, Corbetta (MI) Italy T: +39 0290380812 F: +39 029010059

info@temissrl.com www.temissrl.com (corporate website)