

Electronic Power Supply Systems (SEA)

Dpto. de ingeniería eléctrica, electrónica, de
computadores y sistemas

Edificio departamental oeste, módulo 3

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STAFF

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RESEARCH LINES

- Synchronous rectification for very low output-voltage DC/DC converters
- Single-phase power factor correction
- Modelling of power electronics converters
- Improvements for Uninterruptible Power Supplies (UPSs)
- Ultrafast response DC/DC converters to improve efficiency in radiofrequency power amplifiers
- Multiple-input, multiple-output power electronic systems for electric energy conversion
- Power supply systems for Light-Emitting Diodes (LEDs)

MAIN PROJECT AND COLLABORATIONS WITH COMPANIES

- Cénit project: Research on *Net Zero* technologies for elevators (Net0Lift) (U. de Oviedo and Ikerlan Sociedad Cooperativa)
- FICYT project: Improvements for off-line UPSs based on self-synchronous systems with ultrafast connection (ACURA) (U. Oviedo and Chloride Power Protection)
- FICYT project: Optimization of interactive UPSs with parallel connection capability (OPERA) (U. Oviedo and Chloride Power Protection)
- International contract: Development of DC/DC converters for Nebula project (U. de Oviedo, U. Politécnica de Madrid and Sichuan Institute of Solid-State Circuits (China))
- International contract: Lighting power supply with no electrolytic capacitor (Firefly), (U. de Oviedo and Harmer and Simmons France SAS)
- National contract : 200 W-power supply for UMTS base station (FATS) (U. de Oviedo and ACORDE)