SUPSONIK S.L.

Power Electronics




- ✓Experts in Power Electronics
- ✓Customized solutions
- ✓Technology and innovation

Product Catalogue

EXPERTS IN ELECTRONICS OF

SUPSONIK S.L. is a leading company in the Power Electronics market that focuses its activity in the **Design, Manufacture and Commercialization of Industrial Power Electronics Equipment and Systems.**

EXPERIENCE We have more than 30 years of experience in the sector with a large number of equipment supplied **innovating technology, products** and services.

TECHNOLOGICAL CAPACITY AND INNOVATION. SUPSONIK has its own **R & D & i department**, which also has external technological partners. As a result, the new developments, studies and continuous research have allowed us to be in the market with products **of the latest technology** and high QUALITY, offering also **Engineering and Advisory Services to our clients.**

CUSTOM-BUILT EQUIPMENT This knowledge and experience in Engineering and Manufacturing give us flexibility and ability to **adapt any equipment or system to the needs of each client, application or project** complying with applicable regulations.

RECOGNITION We are satisfied of having an extensive list of clients and collaborators at both national and international level.

FIELDS OF APPLICATION SUPSONIK products and services have an application in the vast majority of electrical and electronic power systems of any sector among which we can mention:

- Renewable energies (wind, photovoltaic, fuel cells).
- Electricity sector: Generation and transport of electricity power.
- Industrial sector
- Military sector
- Naval sector
- * Railway sector
- * Aeronautical sector

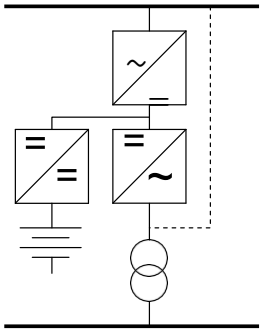
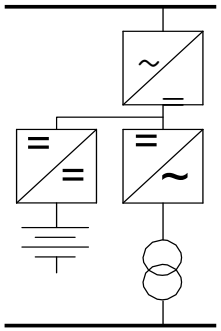
INTERNATIONAL COVERAGE TECHNICAL ASSISTANCE SERVICE

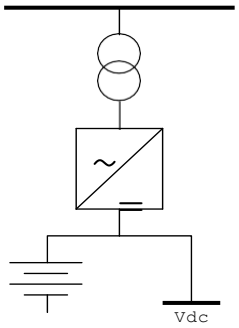
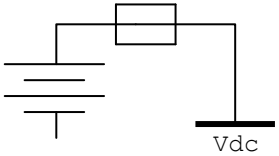
We have a highly specialized technical team trained to carry out start-ups, repairs and maintenance with national and international coverage.

QUALITY Organization and management of the Company is governed by a **Quality Management System** based on the standard **UNE EN ISO 9001:2008** certified by LLoyd's Register.

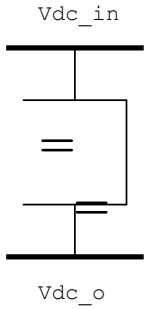
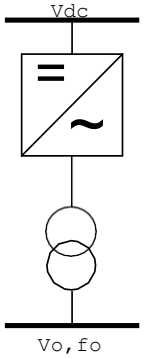
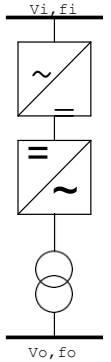
ENVIRONMENT **Protection of the environment** is a fundamental premise in our company policy, being the respect and commitment to the preservation of the environment fully integrated in our processes.

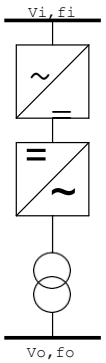
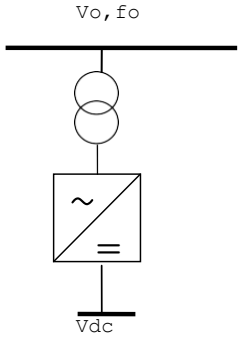



Equipment description		UPS / SAI	AC/DC/AC Converters
One-line diagram			
Fields of application		- Naval / military / rack series - Uninterrupted power supply systems (Hospitals, computer equipment, control centers, security, industrial processes, machine tools, offices, emergency lighting ...)	- Safe power Supplies for Power Plants - Safe Supply Systems in industrial processes - Standard / naval / military series
Image		 	
Power Range		1 kW – 500 kW	1 kW – 1000 kW
Converter type		VSC	VSC
Technology		IGBTs	SCR, IGBTs
Input	Voltage	110/230/400/440/690 V	110/230/400/440/690 V
	Frequency	50/60 Hz	50/60 Hz
Output	Voltage	110/230/400/440/690 V	110/230/400/440/690 V
	Frequency	50/60 Hz	50/60/400 Hz

Equipment description		BATTERY RECTIFIERS / CHARGERS	Pb / Ni-Cd / SOLAR BATTERIES
One-line diagram			
Fields of application		- Single-phase / three-phase rectifiers - Battery chargers - Power supplies. - Electrolysis Processes - Standard / naval / military series	- UPS, Rectifier, Inverter - Lighting, Alarm Systems, - Telecommunications - Solar and Wind Energy Systems, Reserve Power
Image		 	
Power Range		1 kW – 1000 kW	According to
Converter type		VSC	---
Technology		SCR, IGBTs	Pb – Ni-Cd – SOLAR
Input	Voltage	110/230/400/440/690 V	12/24/48/110/192/220/384 V
	Frequency	50/60/400 Hz	=
Output	Voltage	12/24/48/110/220/500/1000 V	12/24/48/110/192/220/384 V
	Frequency	=	=

VOLTAGE AND FREQUENCY

Equipment description		REDUNDANT AC/DC/AC CONVERTERS	REDUNDANT DC/AC CONVERTERS	FREQUENCY CONVERTERS
One-line diagram				
Fields of application		- Naval / military series - DC / DC conversion systems - Redundant Systems n + 1 - Systems of Power Adaptation (S.A.P.)	- Naval / military series - DC/AC conversion systems - Redundant Systems n + 1 - Special Power Supply 400 Hz	- Aeronautics, Naval, Military - Fout = 400Hz - Transformer coil heating for drying - Fout = 3Hz - Ozonizers - Fout = 400Hz
Image				
Power Range		55 / 110 / 330 / 500 kW (Other powers on request)	3 kW – 50 kW (Other powers on request)	5 kW – 2000 kW
Converter type		VSC	VSC	VSC
Technology		MOSFET , IGBT	MOSFET , IGBT	IGBTs
Input	Voltage	24 / 60 / 125 / 375 V	12/24/48/110/192/220/384 V	110/230/400/440/690 V
	Frequency	=	=	50/60 Hz
Output	Voltage	24 / 125 / 360 / 600 V	230 V	110/230/400/440/690 V
	Frequency	=	50/60/400 Hz	3/50/60/400 Hz

Equipment description		400HZ GPU CONVERTERS	28VCC GPU RECTIFIERS
Diagram			
Fields of application		- 400Hz GPU converters for aircraft ground supply - Airport / Hangars	- 28Vcc GPU rectifiers for ground supply of regional aviation aircraft and helicopters. - Airport / Hangars
Image			
Power Range		60 / 90 / 120 / 180 kVA	28V @ 400A / 28V @ 600A
Converter type		VSC	---
Technology		IGBTs	THYRISTORS / DIODES
Input	Voltage	400V ac	400Vac, 200Vac
	Frequency	50/60 Hz	50/60Hz/400Hz
Output	Voltage	200 V	28 Vcc
	Frequency	400 Hz	=
		Other voltages on demand	Other voltages on demand

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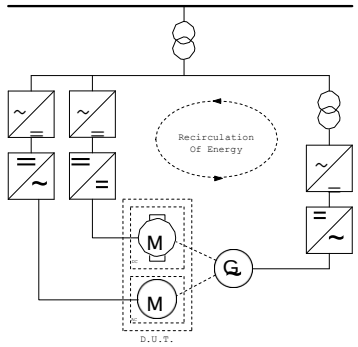
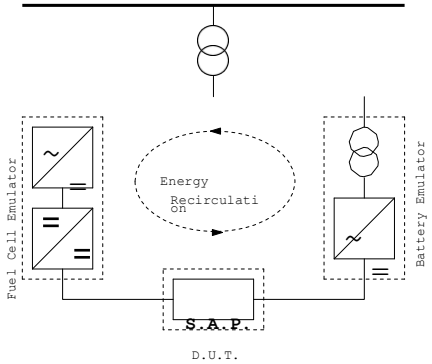
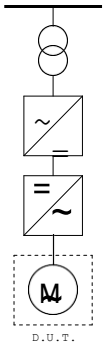
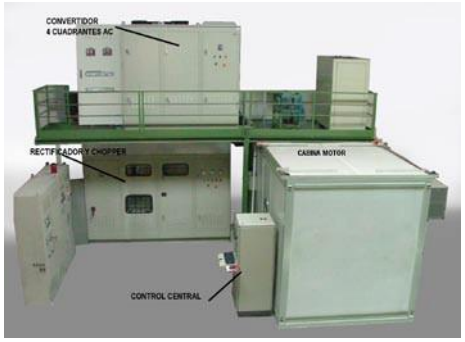
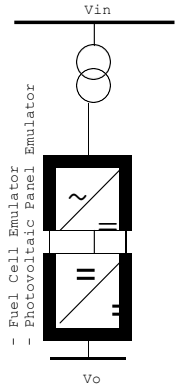
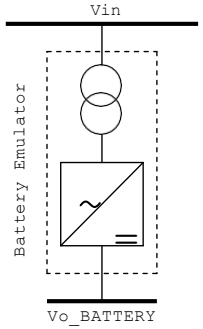
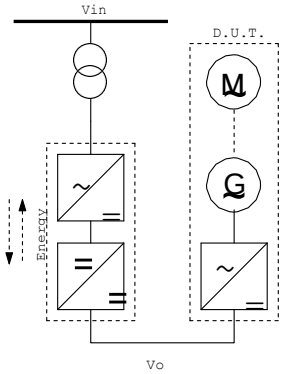
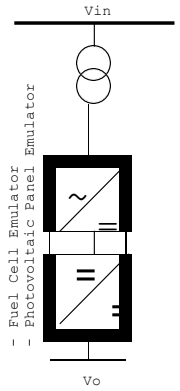
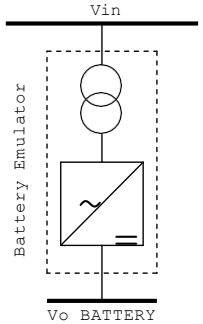
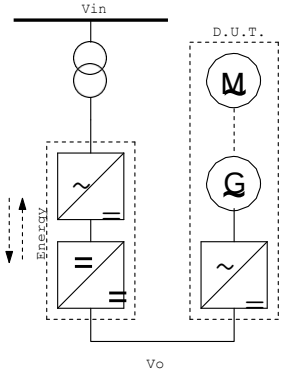
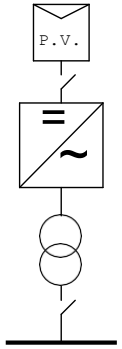
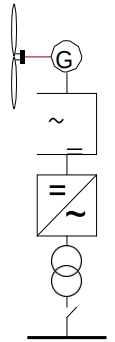
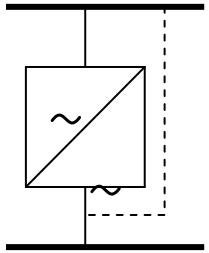
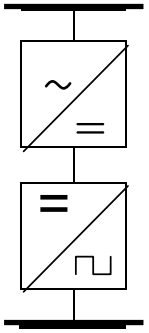
Equipment description		CONVERTERS FOR TEST BENCHES WITH RECOVERY OF ENERGY		SPEED VARIATORS WITH VECTOR CONTROL
One-line diagram				
Fields of application		- Asynchronous Motor Testing - Synchronous Motor Testing - DC Motor Testing	- Fuel Cell Simulation (AC / DC / DC) - S.A.P. Simulation (Power Adaptation System) (DC / DC) - Battery Simulation (DC / AC)	- Speed variators - Asynchronous motors test bench
Image				
Power Range		100 / 600 / 1000 kW (Other powers on request)	55 / 110 / 330 / 500 kW (Other powers on request)	50 / 110 / 300 kW (Other powers on request)
Converter type		VSC		VSC
Technology		IGBT		IGBT
Input	Voltage	400/440/690 V		400/440/690 V
	Frequency	50/60 Hz		50/60 Hz
Output	Voltage	400/440/690 V		400/440/690 V
	Frequency	50/60 Hz		0 ÷ 100 Hz (variable)

Equipment description	EMULATORS FUEL CELL / PHOTOVOLTAIC PANEL	BATTERY EMULATOR S	BIDIRECTIONAL AC/DC - DC/AC CONVERTERS
One-line diagram			
Fields of application	- Fuel Cell Simulation (AC / DC / DC) - Photovoltaic Panel Simulation (AC / DC / DC)	- Battery Simulation (AC / DC)	- Re-generative DC Motor Tests
Image			
Power range	55 / 110 / 330 / 500 kW other powers on request	55 / 110 / 330 / 500 kW (Other powers on request)	100kW – 1000 kW (Other powers on request)
Converter type	VSC	VSC	VSC
Technology	IGBT	IGBT	IGBT
Input – Voltage	400/440 V	400/440 V	400 / 600 / 690 V
Input – Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Output – Voltage	According to cell curve Programming of several Curves	Programmable Different voltage ranges available	0 – 250 – 750 – 1000 V V / I programming

	EMULATORS FUEL CELL / PHOTOVOLTAIC PANEL	BATTERY EMULATORS	BIDIRECTIONAL AC/DC - DC/AC CONVERTERS
One-line diagram			
Fields of application	- Fuel Cell Simulation (AC / DC / DC) - Photovoltaic Panel Simulation (AC / DC / DC)	- Battery Simulation (AC / DC) - Re-generative DC Motor Tests	
Image			
Power range	55 / 110 / 330 / 500 kW Other powers on request	55 / 110 / 330 / 500 kW (Other powers on request)	100kW – 1000 kW (Other powers on request)
Converter type	VSC	VSC	VSC
Technology	IGBT	IGBT	IGBT
Input – Voltage	400/440 V	400/440 V	400 / 600 / 690 V
Input – Frequency	50/60 Hz	50/60 Hz	50/60 Hz
Output – Voltage	According to cell curve Programming of several Curves	Programmable Different voltage ranges available	0 – 250 – 750 – 1000 V V / I programming
Output – Frequency	=	=	=

Equipment description		PHOTOVOLTAIC INVERTERS	WIND GENERATORS
One-line diagram			
Fields of application		- Injection of Photovoltaic energy to the grid (Latest technology with Anti-gap and Anti-islanding system)	- Full Power Converter for Wind Turbines - Test Benches
Image		  	
Power Range		35 / 100 / 125 / 250 / 500 / 1100 kW (Other powers on request)	100 kW – 5000 kW (Other powers on request)
Converter type		VSC	VSC
Technology		IGBT	IGBT
Input	Voltage	430 – 850 – 1500 V	690 V
	Frequency	=	Variable
Output	Voltage	400 / 690 V	690 V
	Frequency	50/60 Hz	50/60 Hz

Equipment description		STABILIZERS / REDUCERS	BALLAST
One-line diagram			
Fields of application		- Reducers for energy saving in public lighting - Voltage stabilizers.	- Lighting systems without Flickering (recording studios)
Image			
Power Range		3.3 - 150 kW (Modular design) Other powers on request	2.5 – 6 kW (Other powers on request)
Converter type		VSC	VSC
Technology		IGBT	IGBT
Input	Voltage	400 V + N	230 V
	Frequency	50 / 60 Hz	50 / 60 Hz
Output	Voltage	400 V + N	120, 240 V
	Frequency	50 / 60 Hz	120 Hz

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