

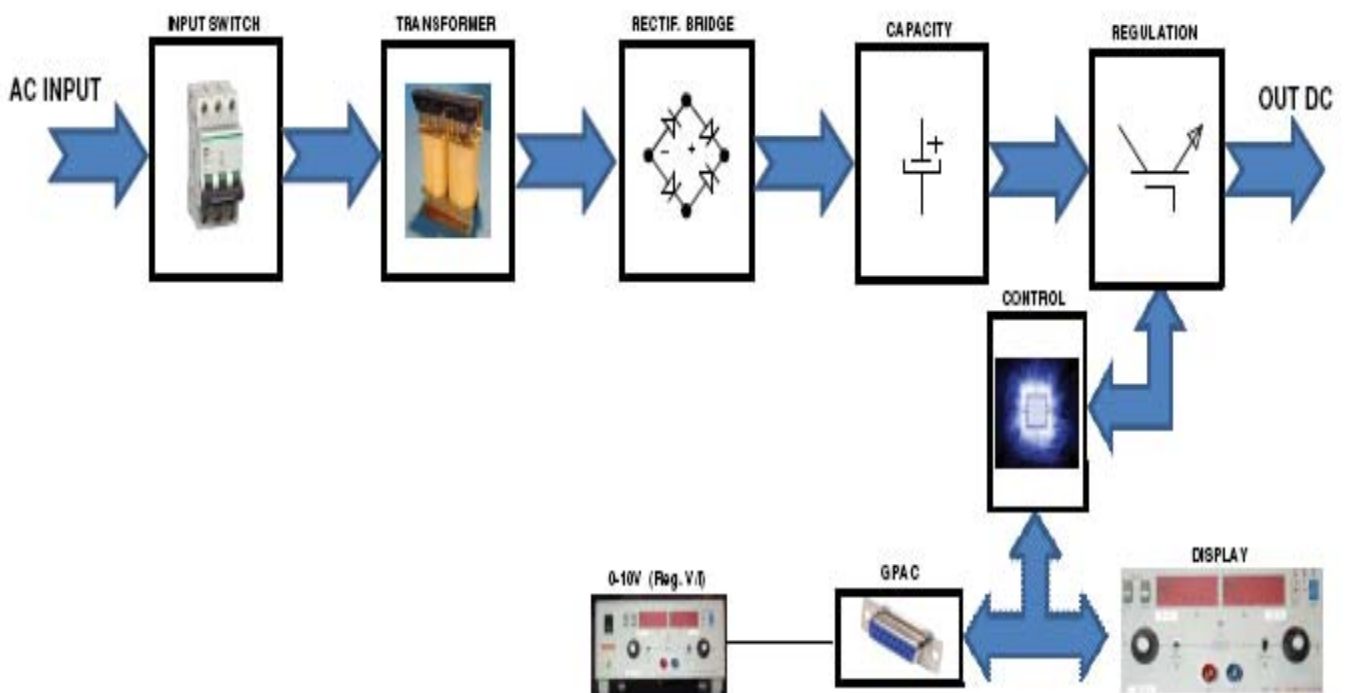
“LINEAR” AC-DC POWER SUPPLIES

In the following pages we present our family of Linear Power Supplies, which can be built with output power up to 40kW also in 2 or in 4 Quadrants models with **Bipolar outputs**.

It is "old" technique of conversion ensuring good reliability and output voltage / current quality.

The main performance that distinguish this technique from the other (switching or other) is very low electronic noise output, fast recovery time at the load transient and fast reaction time to **remote programming**. Another feature not less important than the other is the absolute absence of radiated or conducted emissions so to be used in Anechoic Chambers for feeding EUT during “EMC” validation.

Particularly suitable for installation in test benches, Power Supplies can be used very easily by using them between 0 and the maximum output voltage as one quadrant amplifiers. In series “DAC” (current generators) is appreciate the fast rise time of current (**8A/us**) and in series “DLA” (voltage or current amplifiers) the speed of the output voltage reaches up to **8V/μs** that allows it to follow in amplification up to a frequency of 100kHz.



Bipolari 2 Quadranti

Bipolar 2 Quadrants

CARATTERISTICHE GENERALI

Alimentatori costruiti per soddisfare particolari esigenze di collaudo in molti settori, per ottenere profili di carica e scarica di batterie in modo ciclico senza dover scollegare la batteria dall'alimentatore per collegarla ad un carico, collaudi automobilistici e tutte quelle applicazioni che richiedono in un unico strumento un generatore di tensione ed un assorbitore elettronico.

Alimentatori molto importanti nelle sale prove **motori a scoppio** dove è vietato avere le batterie nello stesso locale del motore in prova.

Utilissimo nel collaudo e nelle prove "vita" di **condensatori elettrolitici** per valutarne le temperature di servizio ed il ciclo vita nella **carica/scarica** anche esasperata.

Utile nei collaudi di **motori in corrente continua** che frenando erogano correnti parassite. **Nell'avviamento di autovetture in linea di montaggio** senza batteria a bordo perché il generatore dell'autovettura, in assenza di carico elettrico (batteria), eroga una tensione molto alta che può danneggiare molte parti elettroniche montate a bordo dell'autovettura

GENERAL FEATURES

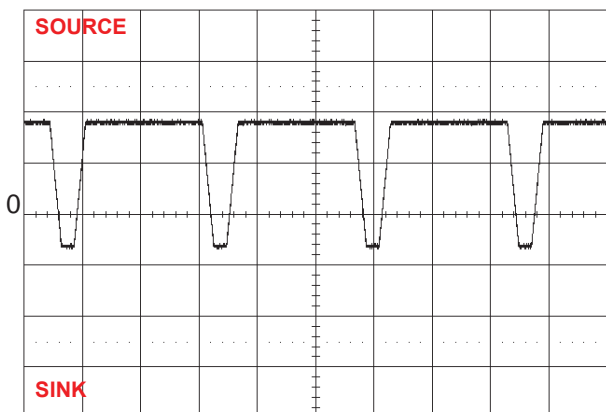
Power Supplies made to satisfy special requirement of test in several fields, to obtain charge and discharge waveforms of battery in a cyclic way without disconnecting the battery from Power Supply to connect it to a load, for automotive test and for all applications that requiring a voltage generator and an electronic sink in only one equipment.

*This devices are very useful for the **internal combustion engines'** test rooms where is not permitted to have the batteries in the same room.*

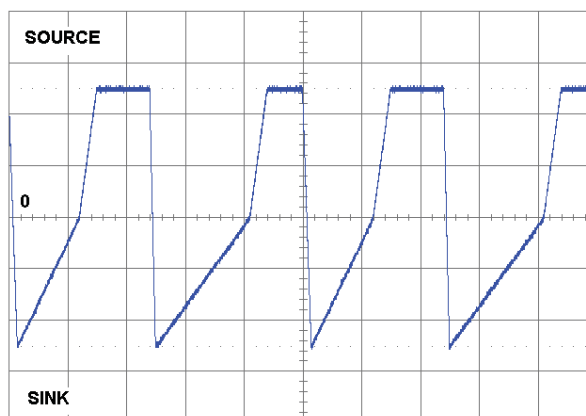
*Very useful for some general capacitors test or for **electrolytic capacitors** life's test in order to evaluate the service's temperature and the life cycle on the **charge/discharge** test (also exasperated).*

*Useful also in the **DC motor** tests because when the engine brakes it produces back electromotive force. Or in **automotive ignitions assembly line** without battery on board because the car's generator, without the electric load (battery) produces an high tension that could damage many electronics parts assembled on board.*

ESEMPI DI UTILIZZO



EXAMPLE OF USE



CARATTERISTICHE TECNICHE

Sezione Alimentatore:

Le caratteristiche tecniche sono quelle delle famiglie di riferimento e cioè i quadranti erogatori assimilabili alla serie **DA** (Generatori di tensione, pp. 5-6-7-8-9 del presente catalogo) e serie **DAC** (Generatori di corrente, pp. 29-30-31 dello stesso catalogo).

Sezione Assorbitore:

Caratteristiche tecniche dei nostri Carichi Elettronici serie **DSOT** (pag. 49-50-51) nella funzione **corrente costante**

Potenze disponibili: fino a 40 kW

Tensioni disponibili: fino a 500 Vdc

Correnti disponibili: fino a $\pm 1.000A$

TECHNICAL FEATURES

Source Section:

The technical features are the same of the reference's family that is the **DA Source series** (voltage Generators, pp. 5-6-7-8 -9) and **DAC series** (current Generators, pp. 29-30-31 on this catalogue).

Sink Section:

The Technical features are the same of our Electronics Loads **DSOT series** (pp. 49-50-51) in the **constant current mode**

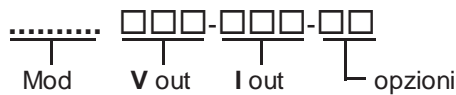
Power available: up to 40kW

Voltage available: up to 500 Vdc

Current available: up to $\pm 1.000A$

Garanzia anni **3** Years Warranty

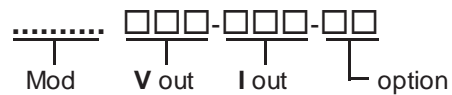
ESEMPIO D'ORDINE



Esempio: 800 **W** / 0-50 **Vdc** / 0-16 **A** / opzione RS485

D2AM 50-16 PW2

ORDER EXAMPLE



Example: 800 **W** / 0-50 **Vdc** / 0-16 **A** / option RS485

D2AM 50-16 PW2