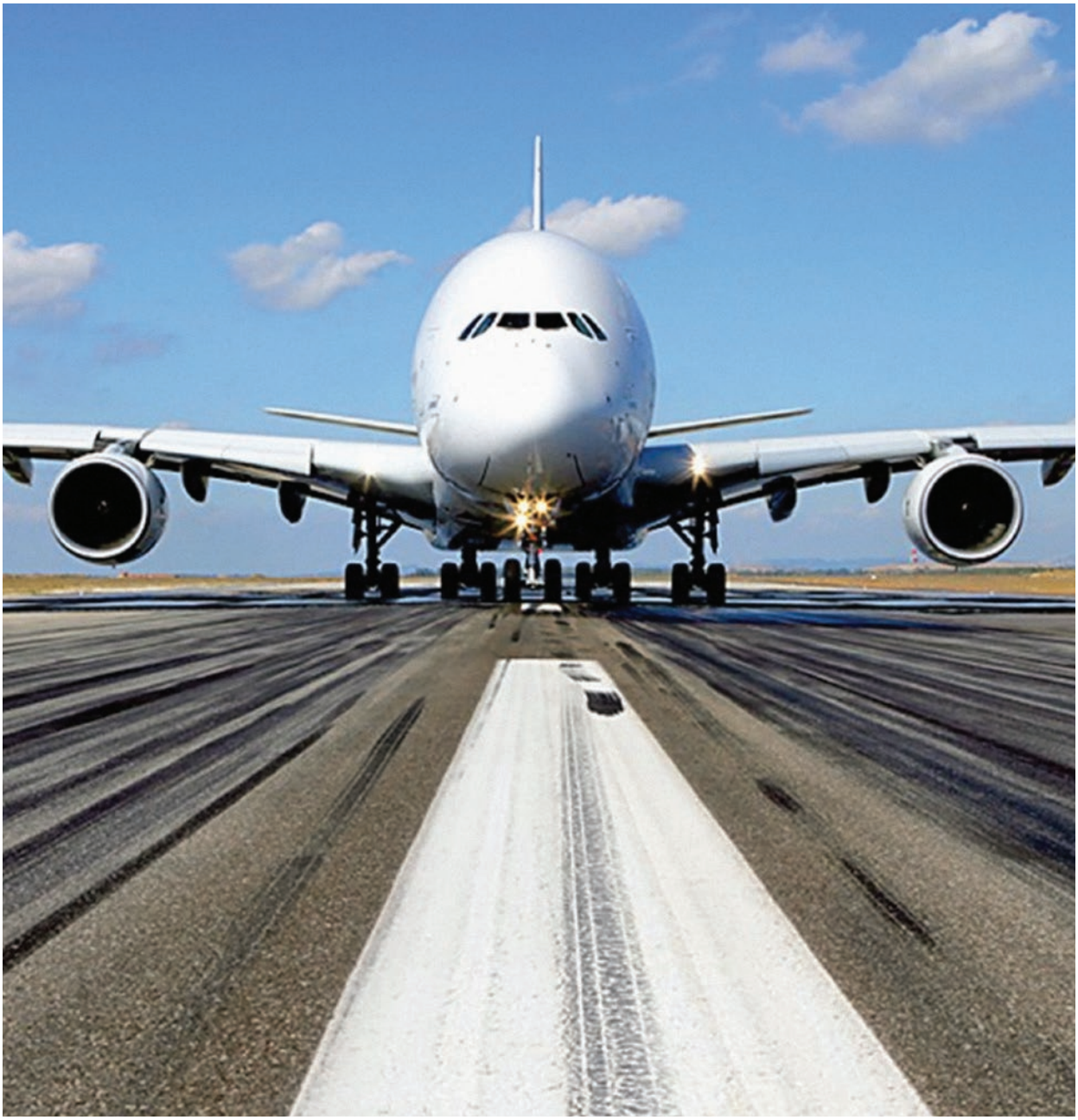
we are innovative

Our capacitors are changing the way you fly



DC CAPACITORS

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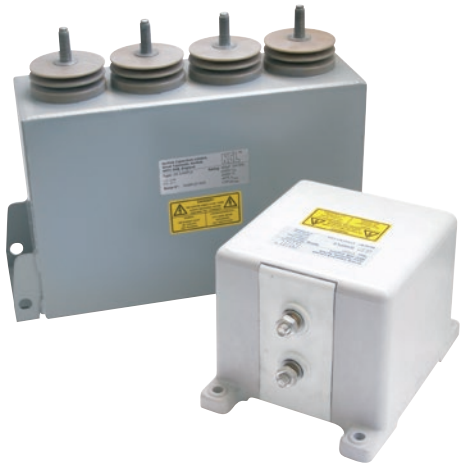
apicapacitors

DC CAPACITORS



API Capacitors design and manufacture DC capacitors that are not limited to a catalogue range. Current, voltage, size, mass and terminations are matched to the customer's requirement and application, a few of which are listed below.

Long life and high reliability is achieved using ultra low defect density, high isotactic, metallised polypropylene dielectric film incorporating an extended working temperature range and controlled self-healing capability. Elements are wound on the latest precision edge controlled automatic winding machines. High conductivity copper is used for low resistance internal connections. Capacitors are finished in powder coated corrosion free metal or insulated cases and filled with an environmentally safe oil or dry leak free resin.

Typical Applications*

Used in Transportation, Marine, Automotive, Aerospace, Military, Medical, Renewable Energy, Power Distribution sectors and other industrial applications.

Static/Non-static Drives (Propulsion, Traction, Elevators, Escalators, Conveyors, Cable Cars)
Power Electronics (Welding, Furnaces, Induction Heating, Lasers, Scanners, Detectors, DC-Link)
Power Transmission (Conditioning, Detuned, FACTS, STATCOM, SVC, HVDC)
Passenger/Freight Rail (Auxiliary Circuits: Lighting, Heating, Ventilation, Communication)
Electric/ Hybrid Vehicles (KERS)
Filters (Smoothing, Suppression, Harmonic, Electrolytic Replacement)
Converters (Inverters, Rectifiers, Choppers, Cycloconverters)

Features

Long Life and High Reliability
Controlled Self-Healing Technology
Oil Filled or Dry Resin Filled
Metal or Insulated Cases
UV Resistance, Halogen Free, Low Smoke and Flame Retardant Materials

Custom Design Capacitors

Designed to meet detailed or brief specifications. Our technical sales representatives can work closely with your design team at concept stage or at the later stages of a project when a time critical design is needed. Alternatively like for-like replacements for older retro-fit designs can be offered.

Typical Characteristics*

Rated Capacitance (C):	0.05 to 30,000 µF
Peak Repetitive Voltage (U_{NDC}):	100 to 20,000 V
Continuous RMS Current (I_{max}):	10 to 1,000 A_{rms}
Frequency (f_p):	100 to 20,000 Hz
Ambient Temperature (θ_{amb}):	-40 to +85 °C
Case Materials:	Steel, Stainless Steel, Aluminium and Insulated Materials
Termination:	Threaded M5-M16 Copper/Brass, Ceramic/Polymer Insulators, Busbar, Cable and Laminated connections
Related Standards:	BS EN 61071, BS EN 61881

* Applications and characteristics are for guidance only. Please contact us to discuss our full design capability.

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