



# DUCATI energia

## Condensatori per Elettronica di Potenza

## Power Electronics Capacitors



**DUCATI energia** produce da oltre 75 anni condensatori per applicazioni di elettronica di potenza. Negli ultimi 20 anni queste speciali applicazioni hanno portato alla realizzazione di circuiti di controllo sempre più precisi, affidabili, di ridotte dimensioni e più elevato rendimento. I condensatori partecipano a questa evoluzione come componenti di primaria importanza assieme ai semiconduttori nei sistemi di conversione e controllo dell'energia.

Le principali applicazioni dei condensatori nel campo dell'elettronica di potenza possono essere sia in tensione alternata (AC-link, commutazione, protezione, circuiti risonanti, filtraggio) sia in tensione continua (DC-link, energy-storage, impulso, filtraggio).

**DUCATI energia** è in grado di sviluppare nuovi progetti per soddisfare specifiche tecniche in continua evoluzione.

**DUCATI energia** manufactures power electronics capacitors since more than 75 years. During the last twenty years these special applications have sorted out more precise and reliable components with reduced dimensions and higher efficiency. These capacitors contribute to this evolution as primary components together with semiconductors, in conversion systems and energy control.

The main important applications of capacitors in the field of power electronics can be in both AC voltage (AC-link, switching, protection, resonant circuits, filtering) and DC voltage (DC-link, energy-storage, pulse, filtering).

**DUCATI energia** is ready to develop new projects to satisfy special requirements always evolving.



## Gamma Prodotti ed Applicazioni

## Products Range and Applications

<b>General Purpose</b>	<b>Metallized Polypropylene Vdc/Vac Capacitors</b> <ul style="list-style-type: none"><li>- Cylindrical aluminium case</li><li>- Self healing MKP dielectric (dry resin filled)</li><li>- Double faston or bolt terminals</li><li>- Over pressure device</li><li>- DC 180÷2100 V - AC 120÷1100 V</li></ul>	<b>Applications</b> <ul style="list-style-type: none"><li>- UPS</li><li>- Inverter</li><li>- Filtering</li><li>- Switching</li></ul>
<b>DC Link</b>	<b>High Energy Vdc Capacitors</b> <ul style="list-style-type: none"><li>- Aluminium case</li><li>- Self healing MKP dielectric (dry resin filled)</li><li>- Bolt terminals</li><li>- DC 500÷1250 V</li><li>- 600÷2000 <math>\mu</math>F</li></ul>	<b>Applications</b> <ul style="list-style-type: none"><li>- High Power Inverter</li><li>- DC Link</li></ul>
<b>Micro Wave Oven</b>	<b>High Vac Capacitors</b> <ul style="list-style-type: none"><li>- Oval aluminium case</li><li>- Self healing MKP dielectric (oil impregnated)</li><li>- Double faston or bolt terminals</li><li>- AC 1700÷2500 V</li><li>- 0.7÷1.8 <math>\mu</math>F</li></ul>	<b>Applications</b> <ul style="list-style-type: none"><li>- Microwave Oven</li><li>- High Voltage</li></ul>
<b>Energy Storage</b>	<b>High Energy Storage Capacitors</b> <ul style="list-style-type: none"><li>- Oval aluminium case</li><li>- Self healing MKP dielectric (oil impregnated)</li><li>- Double faston or bolt terminals</li><li>- DC 1700÷2500 V</li><li>- 100÷200 <math>\mu</math>F</li></ul>	<b>Applications</b> <ul style="list-style-type: none"><li>- Defibrillator</li></ul>
<b>Wind Turbines</b>	<b>PFC/Filter 3-phase Capacitors</b> <ul style="list-style-type: none"><li>- Cylindrical aluminium case (bolt terminals)</li><li>- Self healing MKP dielectric (dry resin filled)</li><li>- Over pressure device</li><li>- AC 690÷880 V</li><li>- 10÷30 kVAR</li></ul>	<b>Applications</b> <ul style="list-style-type: none"><li>- Wind Generators</li></ul>
<b>High Energy and High Frequency</b>	<b>Mosaic Film Capacitors</b> <ul style="list-style-type: none"><li>- Steel case</li><li>- Polypropylene film &amp; aluminium foil (oil impregnated)</li><li>- Bolt terminals</li><li>- DC 800÷5000 V</li><li>- 100÷4000 <math>\mu</math>F</li></ul>	<b>Applications</b> <ul style="list-style-type: none"><li>- Traction filtering</li><li>- Welding</li></ul>
<b>M.V. Protection</b>	<b>High Current Switch Protection Capacitors</b> <ul style="list-style-type: none"><li>- Steel case</li><li>- Polypropylene film &amp; aluminium foil (oil impregnated)</li><li>- Bolt terminals</li><li>- AC 12÷24 kV</li><li>- 100÷500 nF</li></ul>	<b>Applications</b> <ul style="list-style-type: none"><li>- Switch protection</li></ul>
<b>GTO Snubber</b>	<b>High Peak Current &amp; Low Inductance Capacitors</b> <ul style="list-style-type: none"><li>- Cylindrical aluminium case</li><li>- Self healing MKP dielectric (dry resin filled)</li><li>- Bolt terminals</li><li>- AC 1500÷2100 V</li><li>- 0.5÷2.0 <math>\mu</math>F</li></ul>	<b>Applications</b> <ul style="list-style-type: none"><li>- GTO, IGBT Snubber</li><li>- Switching</li></ul>