



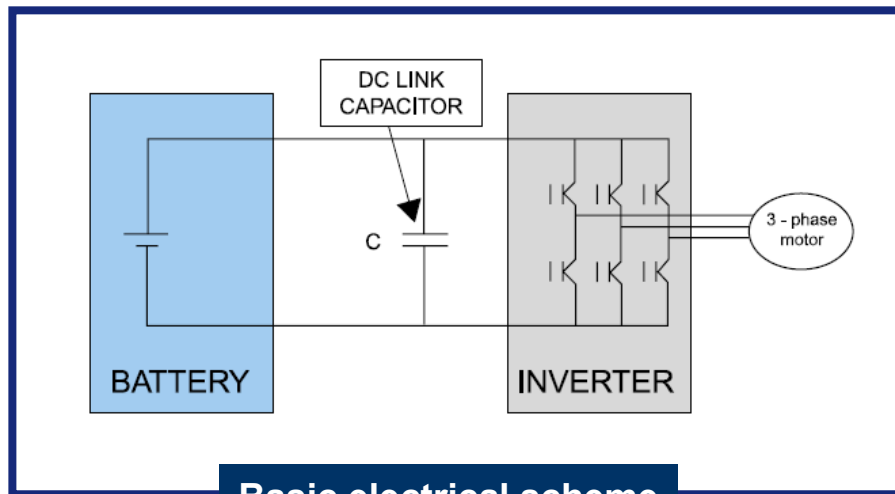
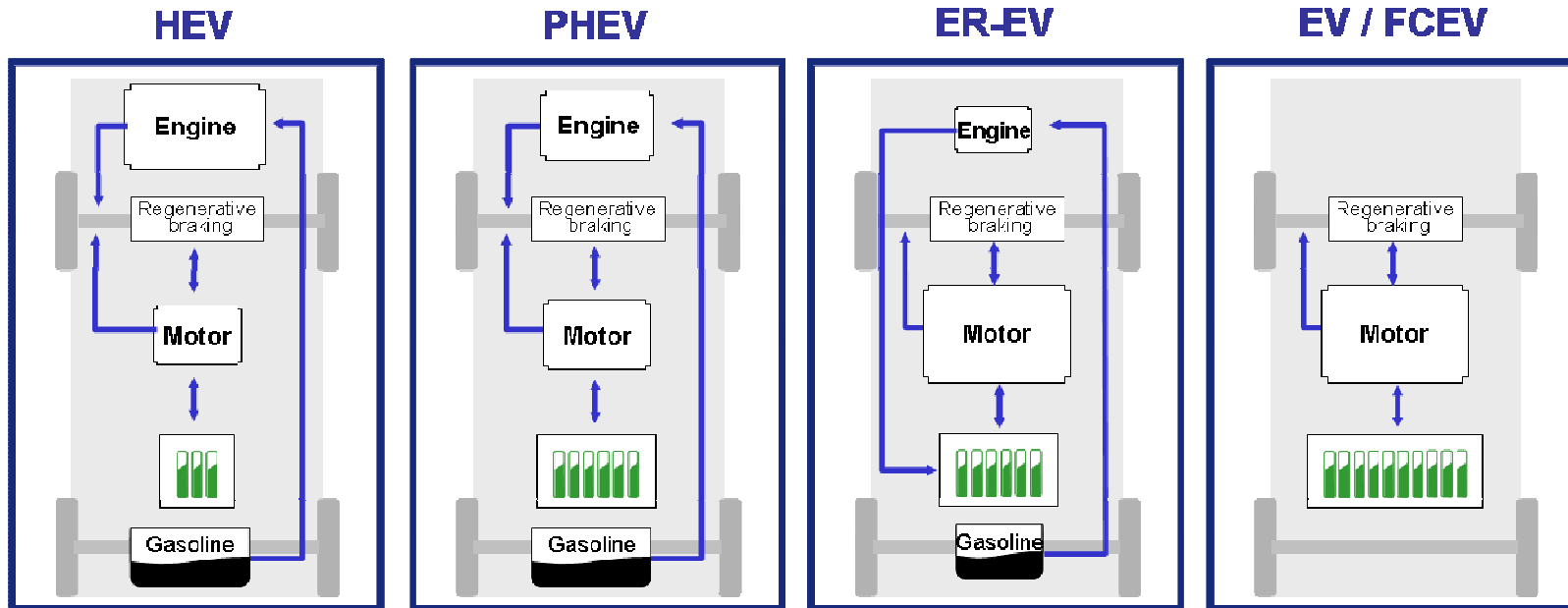
INTRODUCTION TO DC-LINK FILM CAPACITORS FOR AUTOMOTIVE



PILKOR Electronics

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WHAT IS THE DC-LINK FILM CAPACITORS FOR AUTOMOTIVE ?



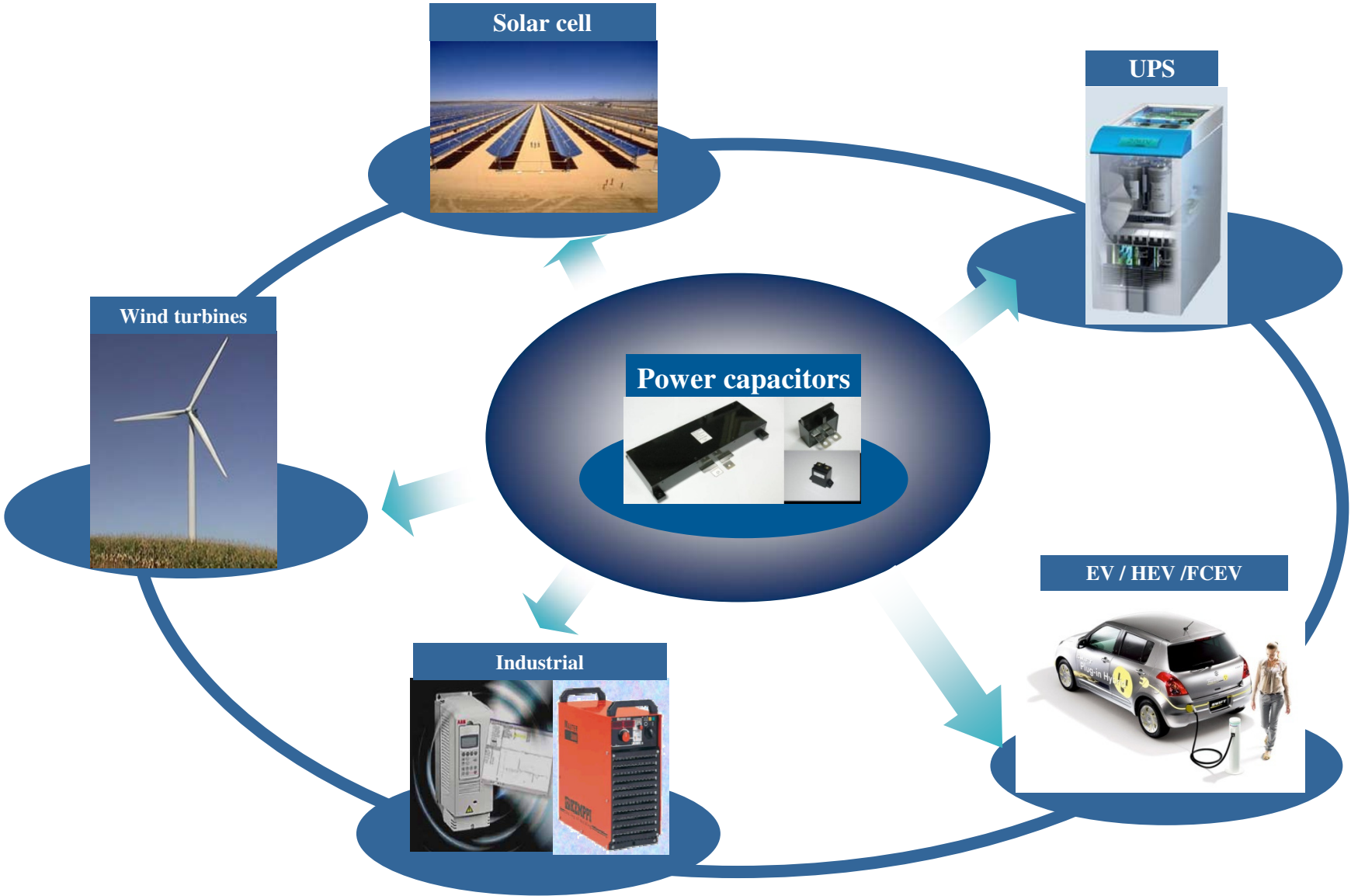
Basic electrical scheme

The advantage of the DC-Link are the following :



- High ripple current capability
- High reliability
(self healing properties combined with segmented metallization)
- No capacitance loss over product life
- Direct mounting in the busbar
- Low inductance
- Flat execution
- Dry technology
- High capacitance stability over temperature
- Low ESR



MAJOR APPLICATIONS



PRODUCTS LINE-UP

Image		
Series	PCPW 245	PCHM 912 * Customer specific design
Technical data	<ul style="list-style-type: none"> - PP metallized film capacitor - Rated capacitance : < 100uF - Rated voltage : 450V ~ 1100V - Operating temp. : -40℃~105℃ - Reference : IEC 60384-16 / 61071 	<ul style="list-style-type: none"> - PP metallized film capacitor - Rated capacitance : < 5000uF - Rated voltage : 450V ~ 900V - Operating temp. : -40℃~105℃ - Rated current : < 400Arms - Self inductance : 5 ~ 20nH - Reference : IEC 60384-16 / 61071
Features	<ul style="list-style-type: none"> - High ripple current - Low losses dielectric - Long useful life - Very high reliability - Contact terminal : lead wire or busbar - Safety : self healing / patterned film 	<ul style="list-style-type: none"> - Long useful life - Low self-inductance - High ripple current - high capacitance density - Contact terminal : integrated busbar - Safety : self healing / patterned film
Application	<ul style="list-style-type: none"> - dc-link application (PCB) - High frequency / current application 	<ul style="list-style-type: none"> - dc-link application (Power module) - Automotive(HEV/EV/FCEV) inverter / converter - Solar/ wind / industrial inverter / converters

