



# Industrial Uninterrupted Power Supply (UPS)

The Capacitance Company  
**KEMET**  
CHARGED®

## Why Choose KEMET

KEMET applies world-class service and quality to deliver industry-leading, high performance capacitance solutions worldwide. With 95% of possible dielectric solutions, KEMET offers the world's most complete line of surface mount and through-hole capacitor technologies across tantalum, ceramic, film, aluminum and paper dielectrics. One world. One KEMET.

## Features & Benefits

- Products for every power and environment
- Standard, optimized and custom designs
- A decade of experience in power applications
- Direct mount snubber version with six tab styles to fit most IGBTs
- AEC Q200 part level qualifications

## Product Checklist

- **Specific questions for the DC Link capacitor:**
  - What is the needed capacitance value?
  - What is the ambient temperature profile?
  - What is the requirement for the expected lifetime?
  - Is there cooling? What kind?
  - What is the nominal and maximal DC voltage?
  - What is the ripple current and frequency?
  - Is the ripple current steady-state or intermittent?
- **Specific questions for the Snubber:**
  - Is the IGBT module with screw or pin connections?
  - What is the current rating of the IGBT?
  - Will it be used alone or in a network?
  - What rated voltage is required?
- **Specific questions for Filter Capacitors:**
  - What is the rated AC voltage and cap value?
  - What is the ripple current and frequency?
  - What is the maximum operating temperature?

For more information, samples and engineering kits, please visit us at [www.kemet.com](http://www.kemet.com) or call 1.877.myKEMET.

## Programs Supported

- Input/output filter
- Power Factor Correction (PFC)
- DC link
- Snubber

## KEMET Products

Product Family	KEMET Series	Form
<b>Input / Output Filter</b>		
Power Film	C4AT (low power)	Box type, Wire terminals
Power Film	C44A C44P (filter)	Aluminum can, Stud terminals
Standard Film	F611-612, SMR, F161, GMC, SMC, LDE, LDB	Surface mount, Through-hole
<b>Power Factor Correction</b>		
Power Film	C93	Aluminum can, Faston terminals
Tantalum MnO2	T491, T494, T495, T498, T499, T35X	Surface mount, Through-hole
Tantalum KO	T520, T525, T530	Surface mount
Aluminum Polymer	A700	Surface mount
Ceramics	AUTO, Open-Mode, FF/FE/FT-Cap, AUTO Aximax, AUTO Goldmax	Surface mount, Through-hole
<b>DC Link Capacitor</b>		
Aluminum Electrolytic	ALS, ALC, PEH5xx	Screw terminals, Snap-in
<b>Snubber</b>		
Power Film	C4AS C4BS	Box type, IGBT box
<b>Specialty &amp; Customer Solutions</b>		
Available upon request. Please contact your local KEMET representative.		

## UPS Block Diagram

