



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 or call 1.877.myKEMET.

Programs Supported

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

KEMET Products

Product Family	KEMET Series	Form
Input / Output Filter		
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
Power Factor Correction		
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
DC Link Capacitor		
Aluminum Electrolytic	ALS, ALC, PEH5xx	Screw terminals, Snap-in
Snubber		
Power Film	C4AS C4BS	Box type, IGBT box
Specialty & Customer Solutions		
Available upon request. Please contact your local KEMET representative.		

UPS Block Diagram

