

Electrolytic Product Brief

Electronic Components
KEMET
CHARGED.[®]

Screw Terminal	Snap-In	Press-Fit
		
Key Applications		
<ul style="list-style-type: none"> ▪ Advanced energy storage ▪ Power supplies ▪ Motor control ▪ Traction converter ▪ Alternative energy 	<ul style="list-style-type: none"> ▪ On-board chargers ▪ Inverters ▪ Wall boxes 	<ul style="list-style-type: none"> ▪ Frequency converters ▪ Solar inverters ▪ Advanced energy storage ▪ Switch mode power supplies
Features		
Capacitance Range		
100µF - 1,300,000µF	47µF - 1,200,000µF	120µF - 120,000µF
Voltage Range		
25V - 550V	25V - 600V	25V - 600V
Operating Temperatures		
-55°C - 125°C	-40°C - 125°C	-40°C - 105°C
Terminals		
M5, M6, Offset - 77mm dia	2 - 5 pins	4 - 5 pins
Dimension (Dia Len)		
35 - 90mm 50 - 220mm	22 - 50mm 30 - 105mm	35 - 50mm 30 - 105mm
Life (Max. Dia.)*		
18,000h	18,000h	18,000h

*Max diameter size, when applied rated Ripple Current, Voltage and Temp

Design Considerations	
Capacitance	
Operating Voltage	
Ripple Current Spectrum (RC and associated freq)	
ESR	
Max Ambient Temperature @ Full Power conditions	
Cooling system (heatsink °C/W, airflow m/s)	
Operating Life Time - Lop	
Capacitor Type (Screw Terminal, Snap-in, Press-Fit)	
Max Dimensions (dia x len)	
Terminal type	
Plain or Studded can	
Special Sleeving Requirements other than PVC	
Vibration Requirements	
Sleeve (PVC, PET, Polyolefin)	

Electrolytic Focus Series

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Screw Terminal

Series	Temp	Diameter Range	Max Voltage	Max Cap	Life (Max. Dia.)*	Benefits
ALS70	85°C	36 - 90mm	600V	1,300,000µF	up to 18,000h	<ul style="list-style-type: none"> - High ripple current capability - Long life - Can operate at higher temperatures. - Maximum capacitance capability in a smaller size
ALS80	105°C	36 - 90mm	500V	1,200,000µF	up to 9,000h	



Snap-In

Series	Temp	Diameter Range	Max Voltage	Max Cap	Life (Max. Dia.)*	Benefits
ALA7D	85°C	25 - 35mm	400V - 500V	820µF	up to 15,000h	<ul style="list-style-type: none"> - AEC-Q200 qualified - Vibration up to 20 g - Long Life - High ripple current
ALA8D	105°C	25 - 35mm	400V - 500V	620µF	up to 8,000h	
ALC70	85°C	25 - 50mm	600V	150,000 µF	up to 18,000h	<ul style="list-style-type: none"> - Long life - High ripple current - High voltage - Excellent surge voltage capability
ALC80	105°C	25 - 50mm	500V	240,000 µF	up to 9,000h	
PEH526	125°C	22 - 30mm	63V	6,800 µF	up to 3,000h	<ul style="list-style-type: none"> - AEC-Q200 qualified - Low ESR - Very high ripple current capability - Resistance to vibrations



Press-Fit

Series	Temp	Diameter Range	Max Voltage	Max Cap	Life (Max. Dia.)*	Benefits
ALF20	85°C	35 - 50mm	600V	100,000 µF	up to 18,000h	<ul style="list-style-type: none"> - Reliable electrical connection without solder - High reliability - Long life - High ripple current - Excellent surge voltage capability
ALF40	105°C	35 - 50mm	500V	120,000 µF	up to 9,000h	



*Max diameter size, when applied rated Ripple Current, Voltage and Temp

All series are design flexible

Try out our online Aluminum Electrolytic Capacitor Life Expectancy Calculator:

<https://elc.kemet.com/>