




Electrolytic Product Brief



| 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

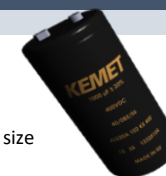
| Design Considerations | |
|---|--|
| Capacitance | |
| Operating Voltage | |
| Ripple Current Spectrum (RC and associated freq) | |
| ESR | |
| Max Ambient Temperature @ Full Power conditions | |
| Cooling system (heatsink °C/W, airflow m/s) | |
| Operating Life Time - Lop | |
| Capacitor Type (Screw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

Electrolytic Focus Series



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 | - High ripple current capability - Long life |
| ALS80 | 105°C | 36 - 90mm | 500V | 1,200,000µF | up to 9,000h | - Can operate at higher temperatures. - Maximum capacitance capability in a smaller size |



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 | - AEC-Q200 qualified - Vibration up to 20 g - Long Life |
| ALA8D | 105°C | 25 - 35mm | 400V - 500V | 620µF | up to 8,000h | - High ripple current |
| ALC70 | 85°C | 25 - 50mm | 600V | 150,000 µF | up to 18,000h | - Long life - High ripple current - High voltage |
| ALC80 | 105°C | 25 - 50mm | 500V | 240,000 µF | up to 9,000h | - Excellent surge voltage capability |
| PEH526 | 125°C | 22 - 30mm | 63V | 6,800 µF | up to 3,000h | - 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 | - Reliable electrical connection without solder - High reliability - Long life |
| ALF40 | 105°C | 35 - 50mm | 500V | 120,000 µF | up to 9,000h | - High ripple current - Excellent surge voltage capability |



*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/>