



# Transportation

## Electric Scooters



### 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

- DC link products offer replacement opportunities for traditional electrolytic capacitors
- Standard, optimized and custom designs
- Extremely high ripple current
- Up to 28A ripple (RMS, continuous load)
- High temperature rating up to 150°C
- High vibration resistance
- Decoupling products available with AEC-Q200 part level qualification
- Long-term lifecycle

### Product Checklist

- What is the battery voltage?
- What capacitor is being used?
- What is the annual requirement and start date of the project?
- Are there any special requirements?
- Questions for DC link capacitors:
  - What is the required capacitance value? Is it fixed or dependent on the allowed ripple current?
  - Does 125°C or 150°C fit the ambient temperature requirement?
  - What is the expected lifetime requirement?
  - What is the ripple current and frequency?
  - Is the ripple current steady-state, or intermittent?
  - What is the preferred termination type (axial, crown)?
- Questions for decoupling capacitors:
  - What is the required capacitance value?
  - What is the applied voltage?
  - What is the size?
  - Any special requirements?

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

### KEMET Products

Product Family	KEMET Series	Rated Temperature	Voltage Rating	Capacitance Range	Form Factor
<b>DC Link</b>					
Electrolytic	PEG226	150°C	25 – 63	250 $\mu$ F – 4700 $\mu$ F	Axial
Electrolytic	PEG225	Up to 150°C	25 – 63	470 $\mu$ F – 6300 $\mu$ F	Axial
Electrolytic	PEG220	150°C	25 – 63	250 $\mu$ F – 4700 $\mu$ F	Axial
Electrolytic	PEG124	105°C	100 – 450	1 $\mu$ F – 150 $\mu$ F	Axial
		125°C	10 – 63	10 $\mu$ F – 4700 $\mu$ F	Axial
Electrolytic	PEG126	150°C	25 – 63	250 $\mu$ F – 4000 $\mu$ F	Axial
<b>Decoupling</b>					
Tantalum	T491/T494/T495	125°C	35	10 $\mu$ F – 47 $\mu$ F	SMD

### DC Link Application for Electric Scooter

