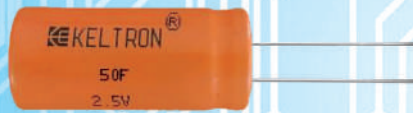


**NEW PRODUCT**

# SUPERCAPACITOR



## **KELTRON HAS SETUP INDIA'S FIRST SUPERCAPACITOR PRODUCTION FACILITY WITH AN INVESTMENT OF RS. 18 CRORES.**

KELTRON WAS ASSOCIATING WITH MAJOR CENTRAL GOVERNMENT R&D ORGANIZATIONS VSSC, CMET & NMRL FOR THE DEVELOPMENT OF THIS NEW TECHNOLOGY FOR MANY YEARS. KELTRON HAS FABRICATED AND SUPPLIED SUPERCAPACITORS FOR DEFENCE AND SPACE APPLICATIONS. PILOT PRODUCTION FOR COMMERCIAL APPLICATIONS STARTED IN JANUARY 2024.

### WHAT IS A SUPERCAPACITOR

A SUPER CAPACITOR/ULTRA CAPACITOR/ELECTRICAL DOUBLE LAYER CAPACITOR IS A HIGH CAPACITY CAPCITOR WHOSE CAPACITANCE IS MUCH HIGHER THAN NORMAL CAPACITORS BUT WITH LOWER VOLTAGE LIMITS (UPTO 2.7 V). IT TYPICALLY STORES UPTO 100 TIMES MORE ENERGY PER UNIT VOLUME OR MASS THAN ELECTROLYTIC CAPACITORS. THUS SUPERCAPACITOR CAN ACCEPT AND DELIVER CHARGE MUCH FASTER THAN BATTERIES AND TOLERATES MANY MORE CHARGE/DISCHARGE CYCLE THAN RECHARGABLE BATTERIES. THE PROPOSED SUPERCAPCITORS ARE BASED ON ACTIVATED CARBON ELECTRODE WITH AN ORGANIC ELECTROLYTE. THE MAIN ADVANTAGE OF ACTIVATED CARBON ARE ITS VERSATILE STRUCTURE/TEXTURE, LOW COST, HIGHLY DEVELOPED SURFACE AREA AND ELECTRICAL CONDUCTIVITY ACROSS REALISATION OF HIGH POWER SYSTEM WITHOUT REQUIREMENT OF COMPLICATED DESIGN.

### SUPERCAPACITOR APPLICATIONS

SUPERCAPACITORS ARE BEING USED IN NUMBER OF APPLICATIONS RANGING FROM AUTOMOTIVE, RENEWABLE ENERGY TO ELECTRONICS. SUPERCAPACITORS CAN BE DESIGNED TO BE UTILIZED IN A VARIETY OF INDUSTRIES FOR MANY POWER REQUIREMENT NEEDS. THE END APPLICATIONS OF SUPERCAPACITORS SPAN FROM MILLI-WATT POWERS TO SEVERAL HUNDRED KILOWATT POWER NEEDS. INDUSTRIES THAT CAN BE BENEFITTED BY SUPERCAPACITORS INCLUDE TRANSPORTATION, CONSUMER ELECTRONICS, RENEWABLE ENERGY, DEFENCE EQUIPMENTS, SPACE LAUNCH VEHICLES AND INDUSTRIAL. SUPERCAPACITORS BRIDGE THE GAP BETWEEN BATTERIES AND CAPACITORS AND THEY MOSTLY FIND THEIR USE IN ANY APPLICATIONS REQUIRING A SHORT DURATION POWER BOOST.

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