Description:

Electric double-layer capacitors (EDLCs) are energy storage devices that have higher capacitance than other capacitors or batteries. Compared with batteries, these devices have higher power capacity, longer life cycle, and faster charging options. Instead of conventional dielectrics, EDLCs have two plates that are separated by electrolytes. These plates are layers of the same substrate. The electrical properties of these plates help to separate the charge effectively, which even highly thin physical layers cannot do. The absence of heavy dielectric materials in EDLCs eases the packaging with a larger surface area resulting in high capacitance. EDLCs can generate capacitance values in farads instead of microfarads and picofarads, which are the measurement units for capacitance.

The growth in the adoption of graphene and carbon nanotube EDLCs will be one of the key trends that will contribute to the growth of this market. To counter the expensive price tag and limited scalability, EDLC manufacturers are coming up with EDLCs based on carbon nanotubes and graphene. EDLCs that are made by joining nanotubes and graphene can store huge amount of energy that could be released quickly to create a power surge. Improved performance in many applications such as consumer electronics and electric vehicles, lightweight, better elastic properties and mechanical strength are some of the features offered by the EDLCs.

The EDLC market consists of many vendors and is still in the growth stage. The adoption of this technology is limited to developed regions such as Europe and North America and a few countries of Asia like Japan, South Korea, and China. Vendors in this double-layer capacitor market have already started offering devices with technologies that will assist in the improvement of safety and the performance levels.

The global Electric Double-layer Capacitor (EDLC) market was valued at 980 million US$ in 2018 and will reach 3310 million US$ by the end of 2025, growing at a CAGR of 16.5% during 2019-2025.

This report focuses on Electric Double-layer Capacitor (EDLC) volume and value at global level, regional level and company level. From a global perspective, this report represents overall Electric Double-layer Capacitor (EDLC) market size by analyzing historical data and future prospect.

Regionally, this report categorizes the production, apparent consumption, export and import of Electric Double-layer Capacitor (EDLC) in North America, Europe, China, Japan, Southeast Asia and India.

For each manufacturer covered, this report analyzes their Electric Double-layer Capacitor (EDLC) manufacturing sites, capacity, production, ex-factory price, revenue and market share in global market.

The following manufacturers are covered:

Maxwell
Panasonic
NEC TOKIN
Murata
LS Mtron
Nippon Chemi-Con
ELNA
Nichicon
Supreme Power Solutions
Rubycon
AVX
VINATech
Ioxus
Samwha
WIMA
Cornell Dubilier
Man Yue Technology Holdings
Segment by Regions
North America
Europe
China
Japan
Southeast Asia
India
Segment by Type
Radial Style EDLC
Cylindricality EDLC
Button Style EDLC
Square EDLC
Pouch EDLC
Segment by Application
Transportation
Consumer Electronics
Electricity
Military and Aerospace
Others
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