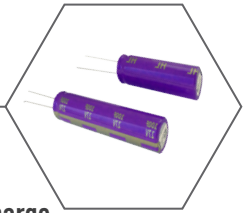


New Product Introduction

HL Series

Electric Double Layer Capacitors, Radial Lead Type



New Panasonic HL Series Electric Double Layer Capacitors (EDLC) “Gold Capacitors” Offer Long Life And Superior Performance Over Secondary Batteries For Auxiliary Power Applications. Low Resistance, Ultra-Fast Charge And Discharge Cycle; Suits Backup Power Supplies For Servers And Solar Applications

Panasonic, a worldwide leader in Capacitor Products, introduces the **NEW HL Series** Electric Double Layer Capacitors (EDLCs) which offer low resistance combined with long life over a wide temperature range, down to -40°C and extending to $+65^{\circ}\text{C}$. Panasonic **HL Series** Capacitors are Wound Radial Lead Type devices, which achieve far better capacitance compared to Aluminum Electrolytic Capacitors (up to 1,000 times greater) and superior charge and discharge performance compared with secondary batteries. The further benefit of a rapid charge and discharge cycles, (over 100,000 times) and exceptional ageing characteristics make Panasonic HL Series EDLCs ideal for applications such as backup power supplies for servers and storage devices, auxiliary power supplies for solar-powered products including street lighting and driver-assist for motors and actuators in a variety of markets.

Maximum operating voltage for the **HL Series** is 2.7 V.DC and nominal capacitance ranges from 50°F to 100°F . These EDLCs are also designed to maintain their capacitance and internal resistance without drifting at low temperatures, as opposed to competitive Capacitors where capacitance and internal resistance may change up to $\pm 30\%$ and ≤ 7 times respectively of initial measured values. Both the 50°F device and the 100°F device in the **HL Series** are designed for a life of 2,000 hours at $+65^{\circ}\text{C}$. For power backup applications, ageing characteristics influence the choice of EDLC due to the rise in internal resistance and rapid decline in capacitance. Due to the unique electrolyte used in Panasonic parts, these ageing effects are mitigated besides delivering significant space-savings.

Features

- Low ESR: 10 to 15 m Ω
- Maximum Operating Voltage: 2.7 V.DC
- Operating Temperature Range: -40°C to $+65^{\circ}\text{C}$
- Long Life: $+65^{\circ}\text{C}$ 2000 h
- RoHS and REACH Compliant

Benefits

- Low ESR Allows the HL Series to Withstand a Discharge Current of as High as 10 to 15 A
- Wide Operating Temperature Range

Applications

- Backup Power Supplies For Servers and Storage Devices
- Driver-Assist For Motors and Actuators in a Variety of Markets
- Data Backup For E-Meters
- Auxiliary Power Supplies For Solar-Power Products (Billboards, Street Lighting)

Industries

- Industrial
- Automotive
- Metering

