

## **Panasonic expands HL Series Electric Double Layer Capacitors (ELDC) “Gold Capacitors” in smaller cells offering long life and superior performance for auxiliary power applications**

*Low resistance, ultra-fast charge and discharge cycle; suits backup power supplies for smart grids and servers*

*Munich, April 2017:* Panasonic Automotive & Industrial Systems Europe announces the extension of its HL Series Electric Double Layer Capacitors (ELDCs), which offer low resistance combined with guaranteed long life over a wide temperature range, from -40 to +85°C. Panasonic HL Series Gold Capacitors are wound radial lead type devices, which achieve far better capacitance compared to aluminium electrolytic capacitors (up to 1,000 times greater) and superior backup performance. Additional benefits of rapid charge and discharge cycles, (over 500,000 times) and exceptional ageing characteristics make Panasonic HL Series ELDC capacitors ideal for applications such as backup power supplies for servers and storage devices, solar-powered products, smart grid solutions, and driver-assist for motors and actuators in a variety of markets.

The extension of the HL Series adds nominal capacitance values of 2.5F, 4.5F and 7.5F to the existing 50F and 100F parts, all rated at 2.7VDC. These ELDCs are guaranteed to maintain their capacitance and internal resistance without drifting at low temperatures, as opposed to other products available from competitors where the capacitance and internal resistance values may change by  $\pm 30\%$  and up to 7 times respectively from initial measured values. New, smaller size HL Series devices are guaranteed for a life of 2,000 hours at +70°C but can achieve 1,000 hours at 85°C with voltage derating. For power backup applications where ageing characteristics cause a rise in internal resistance and rapid decline in capacitance, EDLC capacitors are especially beneficial. Due to the unique electrolyte used in the Panasonic parts, such ageing effects are mitigated, in effect leading to part count reduction.

Andreas Lapucha, Product Marketing Manager Capacitors at Panasonic comments: “The extension of our HL Series within a year of its original launch testifies to the need for reliable, enduring and scalable backup solutions offering significant cost and space-saving benefits. The new leakage-safe electrolyte which does not produce any Hydrogen Cyanide gives us an edge over market competition in terms of extended temperature range and responsible environmental stewardship.”

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For further information on the HL Series Electric Double Layer Capacitors please visit: <https://eu.industrial.panasonic.com/products/capacitors/electric-double-layer-capacitors-gold-capacitor/wound-type>

## **About PAISEU**

Panasonic Automotive and Industrial Systems Europe (PAISEU) is a company that provides unparalleled expertise to leading car manufacturers, industrial customers and OEMs. It researches, develops, manufactures and supplies key electronic components, devices and modules up to complete solutions across a broad range of industries; and provides production equipment which builds the manufacturing lines of global corporations.

Globally, Panasonic's Automotive and Industrial Systems company is responsible for over one third of Panasonic's overall revenue.