NEW
LHX Series

Snap-in Type
Aluminum Electrolytic Capacitor

Higher Capacitance
Higher Ripple

CHEMI-CON
No. U24C080361

● Feature

- ☑ Endurance: 105℃ 5,000h (with ripple)
- ☑ Voltage: 350Vdc to 400Vdc
- ☑ Capacitance : 180uF to 1,500uF
- ☑ Size : Φ22×30L to Φ35×60L
- ☑ One size smaller than LXS series

● Recommended Application

- ☑ For general, Server power supply (Input filtering, PFC circuit)
- ☑ For PV(solar) inverter
- ☑ For inverter (DC-LINK)

● Product Chart

☑ Recommended to replace in LXQ/LXS to LHX

*Line up for downsizing and longer life (Snap-in type)

LXQ
- Old standard
- Φ35×50L (400V680uF, 2.39Arms)
- 105℃ 5,000h
- -40 to 105℃

Since 2002.10

LXS
- Downsizing
- Φ35×45L (400V680uF, 2.4Arms)
- 105℃ 5,000h
- -40 to 105℃

Since 2006.04

NEW
LHX
- **Higher Cap. / Higher ripple**
- **Φ35×40L** (400V680uF, 2.78Arms)
- **105℃ 5,000h**
- **-40 to 105℃**

Since 2024.05

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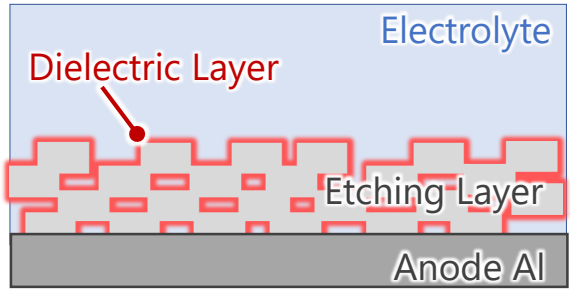
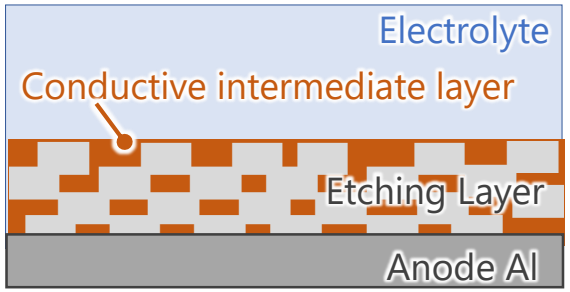
● Advantage

Conventional Foil



Dielectric layer

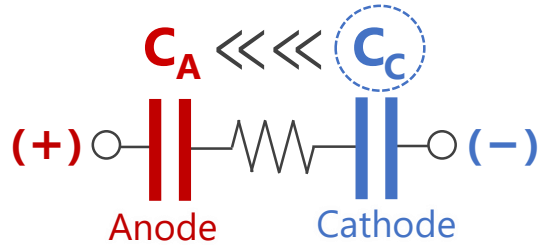
New Cathode Foil



Conductive intermediate layer

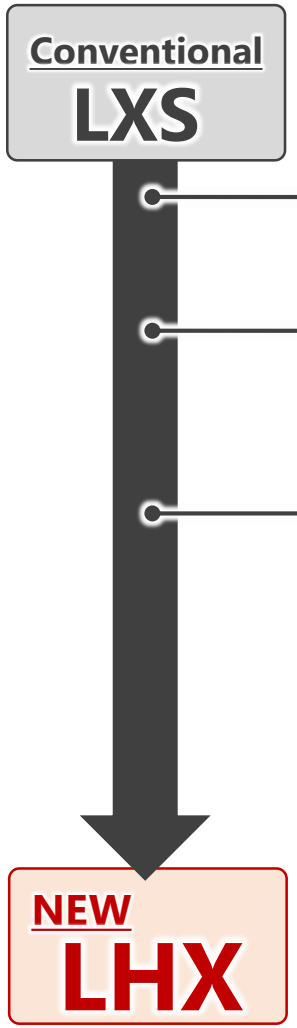
☑ **Total capacitance calculation**

$$C = \frac{C_A \times C_C}{C_A + C_C} \cong C_A$$



☑ Three advantages from LXS to LHX

① **Higher capacitance**
② **Higher ripple current**
③ **Downsizing**



【 Key Technologies】

Separator
・Thin / high density

Aluminum Foil (Anode)
・Higher capacitance

Aluminum Foil (Cathode)
・Increased foil capacitance
⇒Increased total capacitance

New Cathode Foil

Patented

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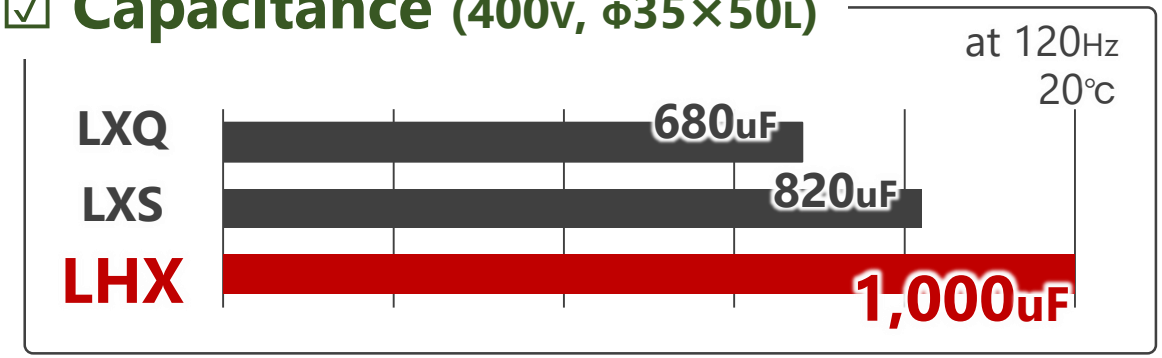
● Benefit/Evidence

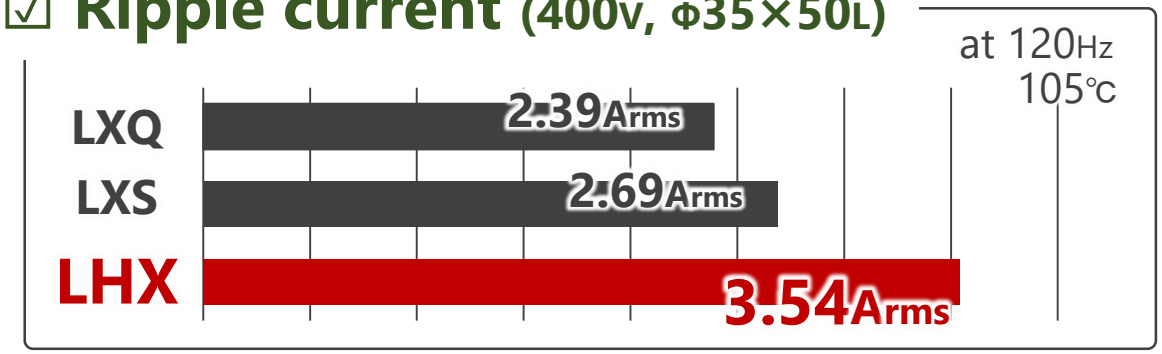
➡ ①Higher Capacitance / ②Higher ripple current・・・Reduce # of Capacitors

③Downsizing・・・Equipment Downsizing, Low Height, Light Weight

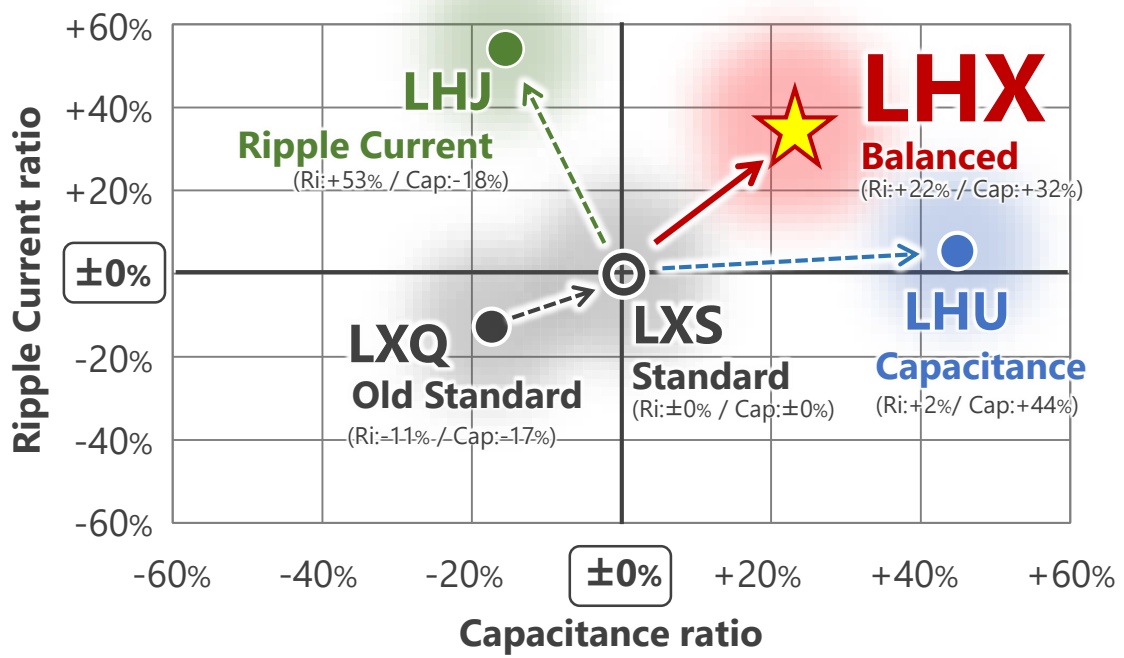
☑ Capacitance (400V, Φ35×50L)



☑ Ripple current (400V, Φ35×50L)



☑ Position of series (400V, Φ35×50L, 5,000H)



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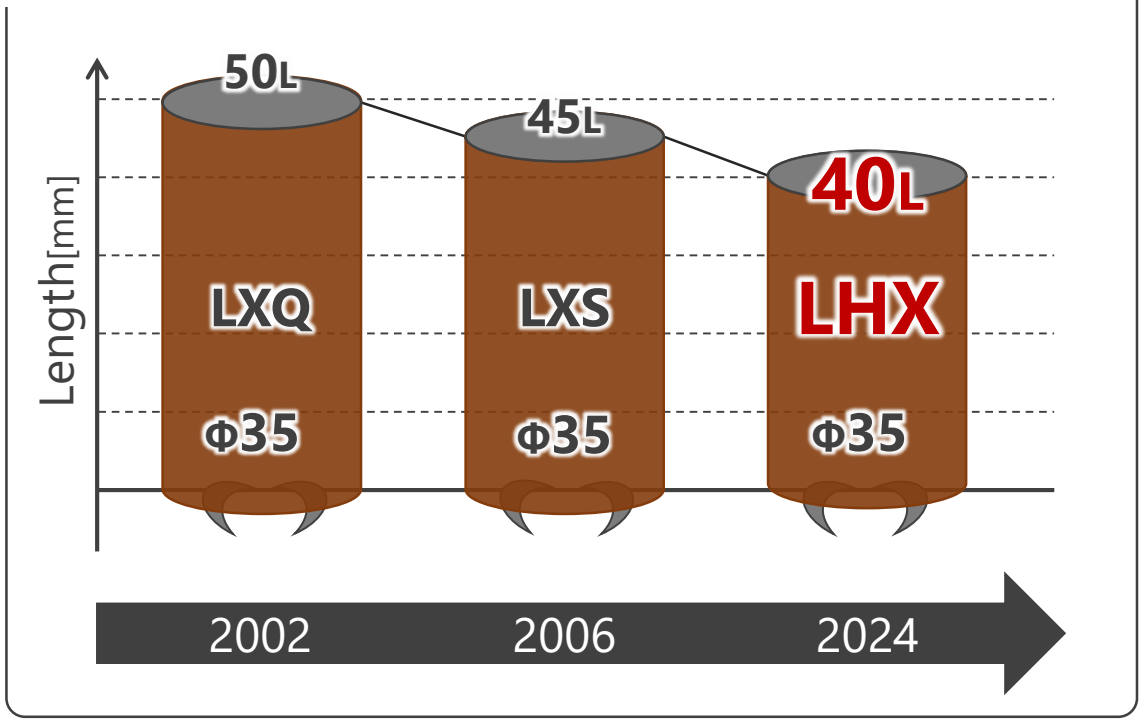
● Benefit/Evidence

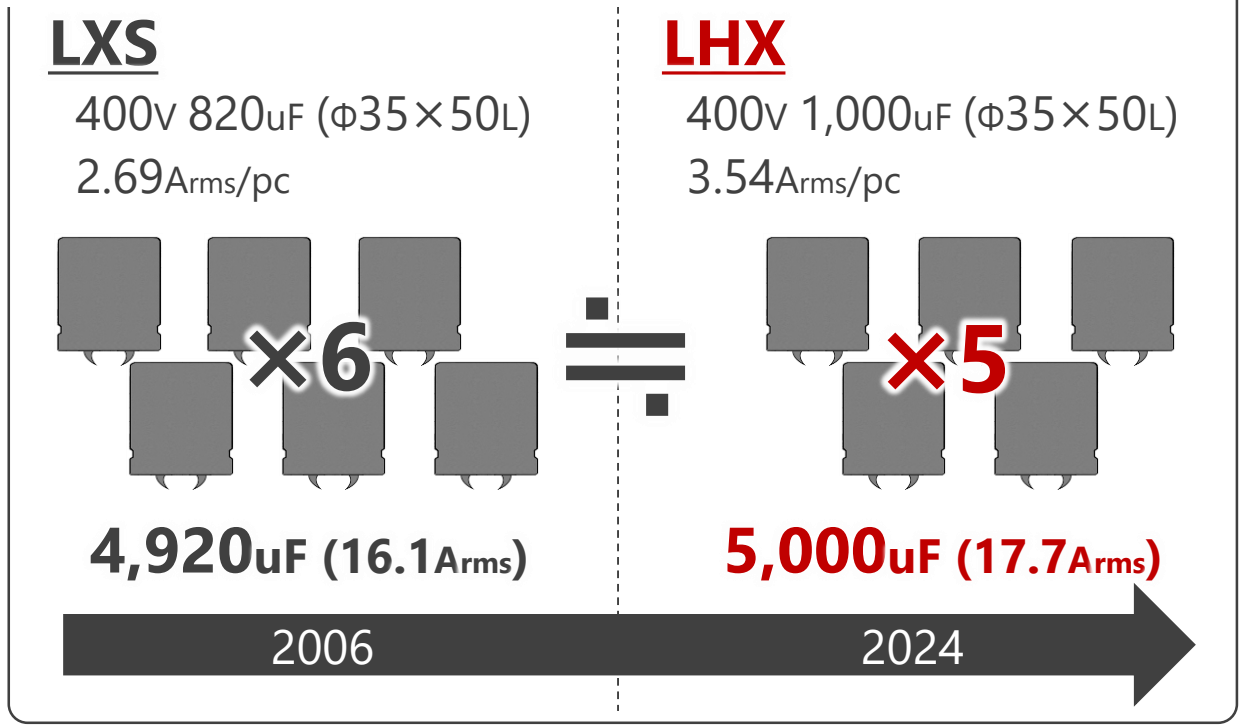
➡ ①Higher Capacitance / ②Higher ripple current・・・Reduce # of Capacitors

➡ ③Downsizing・・・Equipment Downsizing, Low Height, Light Weight

☑ Comparison at height (400v680uF, Φ35)



☑ Reduced number (Fixed total capacitance)



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