

EB-C Intelligent – Frequently Asked Application Questions

Q : **What is “EB-C Intelligent”?**

A : EB-Ci is a futuristic product that intelligently drives all lamp combinations with one SKU. An ideal solution where higher specs & max possibilities saves customers to keep stocks for several combinations & wattages.

Q : **What lamp combination does EB-Ci offers?**

A : EB-Ci TLD offers : 1x36, 2x36, 1x18, 2x18, 3x18, 4x18
EB-Ci TL5 offers : 1x28, 2x28, 1x21, 2x21, 1x14, 2x14, 3x14

Please note that

- a. 3 & 4 lamps combinations gives 3k switching cycles with lamps
- b. 3x14W TL5 application is supported with 9.5K hrs (@12hr cycle) lamp life

Q : **Is EB-Ci ENEC compliance ballast?**

A : No. EB-C range is non ENEC compliance. Though EB-Ci is a warm start / preheat ballast, but the preheat energy is not compliance to IEC60929 requirements, which does not allow EB-Ci to be a ENEC compliance ballast.

Q : **What is CF for EB-Ci? What is CF significance?**

A : Lamp manufacturers use crest factor to determine ballast performance as it relates to lamp life. IEC60929 requires CF to be <1.7.
EB-Ci CF is in range of 1.4-1.6.

Q : **Can I use EB-Ci with motion detectors or other sensors?**

A : Using EB-Ci in application with frequent on/off switching will lead to early failure of lamps. EB-Ci is designed for applications where lamps are burned for long hours.

We recommend HF-S II / HF-P III range for higher switching applications to maximize lamp life.

Philips does not hold lamps warranty if applied together with EB-Ci in high frequency applications.

Q : **Is there “Series or Parallel” wiring for multiple lamps?**

A : All multiple lamp combinations are in series. This means that failure of one lamp will turn off all lamps in the combination.

Q : **What is Ballast factor with EB-Ci?**

A : As per CELMA directives, EB-Ci is designed to have a ballast factor of 1.

Q : **What is the effect of higher temperature on ballast life?**

A : EB-Ci is designed for 45k hours life at $T_a = 50^{\circ}\text{C}$. Higher temperature application will reduce ballast life. As a thumb rule, 10 degree rise or fall of temperature will half or double the ballast life. So;

- $T_a = 40^{\circ}\text{C} \gg$ ballast expected life is 90k hours
- $T_a = 60^{\circ}\text{C} \gg$ ballast expected life is 22k hours

Effect of temperature rise beyond 10 degrees is unidentified. Please refrain to use in higher temperature.

Q : **Does it has “auto re-start” after re-lamping?**

A : 1 lamp combinations – yes, auto restart

Others – No.

Q : **How to ensure safety EB-Ci?**

A : EB-Ci fully complies to IEC 61347-2-3, IEC 61347-1 for safety.

Kindly make sure;

- a. to use proper cable size, as mentioned in datasheet
- b. no loose connections are there (ballast connectors or lamp holders)
- c. that the ground terminal of ballast are connected with metal luminaires and earthed.
- d. keep wires to terminals 5, 6 short for all combinations.
- e. no mismatch of the ballast and lamp is there.

Q : **How EB-Ci performs with voltage fluctuations?**

A : EB-Ci is quite robust on voltage fluctuations. It survives for 48 hrs if voltage increases to 320 VAC and 02 hrs if voltage increases to 350 V AC

Q : **Is EB-Ci complies with EMC?**

A : Yes. EB-Ci fully complies with EN55015 for RFI requirements for 9kHz-30Mhz and 30Mhz-300Mhz

Q : **Can I replace EB-Ci in my current luminaire without wiring change**

A : 1 & 2 lamps luminaire – Yes, same wiring diagram

3 & 4 lamps luminaire – No, wiring need to be changed.

Please see the wiring instructions on the product label.

For any further question – please refer to product datasheet or contact nearest Philips Lighting sales team. In order to enjoy maximum performance results, please use EB-Ci with Philips Lamps – and get benefit for system warranty.