



PowerBalance PoE – Intelligent energy-saving luminaire enabled for connected lighting systems

PowerBalance PoE

With Power-over-Ethernet (PoE) technology, PowerBalance PoE receives power and data over a single standard Ethernet cable, eliminating the need for separate power cabling. With the simple click of a connector, PowerBalance PoE luminaires become part of a complete, integrated connected lighting system, delivering extraordinary illumination experiences and value beyond illumination. A built-in lighting and control system gives office users personal control over their preferred light settings via a specially designed smartphone app. With integrated sensors, PowerBalance PoE luminaires can track activity patterns, daylight levels, and in the near future humidity, CO₂, temperature, or other data. This data allows facility managers to gain deep insight into building operations, helping them optimize the delivery of resources, enhance the experience and performance of occupants, and support improved asset management.

Benefits

- LED lighting and control system with breakthrough Total Cost of Ownership, reducing installation costs by around 25% and commissioning costs by around 50%
- Software applications optimize working processes, comfort, and asset utilization and management
- Clear customer benefits in both the construction and usage phases of a building

PowerBalance PoE

Features

- Data gathering on building usage via luminaire sensors
- Personal control of lighting and temperature settings
- Simpler and cheaper installation and lighting commissioning

Application

- General lighting for office buildings

Specifications

Type	RC461B (module size 600x600 mm versions) RC463B (module size 625x625 mm versions)
Ceiling type	Exposed T-bar ceiling
Ceiling grid	RC461B: module size in length: 600 mm RC463B: module size in length: 625 mm
Light source	Non-replaceable LED module
Power	20 to 29 W (depending on type)
Beam angle	90°
Luminous flux	3100 lm (for PoE 25 W systems)
Correlated Color	4000 K
Temperature	
Color Rendering Index	> 80
Median useful life L70B50	70,000 hours
Median useful life L80B50	50,000 hours
Median useful life L90B50	25,000 hours
Driver failure rate	1% per 5000 hours
Average ambient temperature	+25 °C

Operating temperature range	+10 to +40 °C
Driver	Built-in
Power/Data supply	PoE (Power over Ethernet) driver
Mains voltage	54 V (PoE switch)
Dimming	Via PoE controller
Controls system input	PoE controller
Material	Housing: coated steel and plastic Rim: powder coated steel Optics: plastic
Color	White
Connection	PoE connector CAT cable
Maintenance	Optical module sealed for life; no internal cleaning required
Installation	In lay, no brackets needed Through-wiring not possible

Product details



Slots for sensors of choice



ActiLume sensor

PowerBalance PoE

Product details

Modular backbone



Special optics



ActiLume sensor



CAT connection



PowerBalance PoE RC463B recessed LED luminaire, module size 31x125 mm (visible profile ceiling version)



PowerBalance gen2 RC462B/RC463B recessed LED luminaire, with ActiLume (visible profile ceiling version)

