



PowerBalance gen2

RC463B 34S/840 SRD W62L62 VPC U4 UE

PowerBalance gen2, UltraEfficient, 20 W, 620x620 mm, VPC, 3400 lm, 4000 K, CRI>80, Wireless, Interact Ready, UGR16, U4

When it comes to lighting office spaces with LED luminaires, businesses are willing to invest in sustainability, provided they get a payback on their investment. At the same time, the system should comply with office lighting norms to ensure a comfortable working environment. Philips PowerBalance Gen2 is our most energyefficient, office-compliant LED luminaire. Designed for circularity and enhanced wellbeing, this office luminaire also promises future-proof connectivity. State-ofthe-art efficacy (at CRI >90), upgradability features, a long lifetime, repairability, and design for recyclability make PowerBalance Gen2 a true 'green choice'. One that also delivers significantly lower operational costs to ensure an attractive payback that meets the needs of businesses and the specification market. The Gen2 architecture in the latest PowerBalance range has enabled us to create a range of highly-versatile modular and semi-modular luminaires. These LED luminaires can be easily mounted in ceilings with an exposed T-bar or concealed T-bar, as well as plaster ceilings and bandraster-type ceilings. PowerBalance is a solution with superior lighting specifications combined with a best-in-class connectivity designed for Circularity & enhanced Wellbeing using Interact Pro - all with a sustainable approach to high-performance office lighting.

Warnings and Safety

- The product is IP20 and, as such, is not protected against water ingress. Therefore we strongly recommend that the environment in which the luminaire is to be installed should be suitably checked
- If the advice above is not taken and the luminaires are subject to water ingress, Philips / Signify cannot guarantee safe failure and the product warranty will become void

Product data

Datasheet, 2024, November 5 data subject to change

PowerBalance gen2

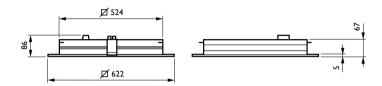
General Information		Reflector material	Polycarbonate
Light source replaceable	No	Optic material	Polycarbonate
Number of gear units	1 unit	Optical cover material	Polycarbonate
Driver included	Yes	Fixation material	-
Service tag	Yes	Housing Color	White RAL 9003
Lighting Technology	LED	Optical cover finish	Opal
Value ladder	Specification	Reflector Finish	White reflector
Serviceability class	Class B, luminaire is equipped with some	Overall length	622 mm
	serviceable parts (when applicable): driver,	Overall width	622 mm
	control units, surge protection device, front	Overall height	82 mm
	cover and mechanical parts	Dimensions (Height x Width x Depth)	82 x 622 x 622 mm
Warranty period	5 years	Compatible ceiling or ceiling installation	Visible profile ceiling version
Sustainability rating	Lighting for circularity Lighting for	accessory type	
	wellbeing	Optical finish	Opal
		Ingress protection code	IP20/40 [Finger-protected, Emitting
Light Technical			surface]
Luminous Flux	3,400 lm	Mech. impact protection code	IK03 [0.35 J reinforced]
Saturated Red (R9)	<50	Explosion hazard class	-
Correlated Color Temperature (Nom)	4000 K	Mounting	Recessed
Luminous Efficacy (rated) (Nom)	172 lm/W	Net Weight (Piece)	4.900 kg
Color rendering index (CRI)	≥80		
Beam angle of light source	120 degree(s)	Emergency Operation	
Light source color	840 neutral white	Central Emergency	No
Optic type	Wide beam office compliant	Emergency lighting	-
Luminaire light beam spread	86°		
Unified glare rating CEN	16	Approval and Application	
		Glow-wire test	Temperature 650 °C, duration 30 s
Operating and Electrical		Flammability mark	For mounting on normally flammable
Line Frequency	50 to 60 Hz		surfaces
Inrush current	20 A	CE mark	Yes
Inrush time	0.216 ms	ENEC mark	ENEC mark
Power Consumption	20 W	Photobiological risk	Photobiological risk group 1 @200mm to
Power Factor (Fraction)	0.9		EN62778
Connection	Push-in connector and pull relief	EU RoHS compliant	Yes
Cable	-	Performance ambient temperature Tq	25 ℃
Number of products on MCB of 16 A type B	24	Flickering value (PstLM) - Flickering value	1
Suitable for random switching	Yes (relates to presence/ movement	as per EN 61000-3-3	
	detection and daylight harvesting)	Stroboscopic effect visibility measure (SVM)	0.4
Protection class IEC	Safety class I	Ambient temperature range	+10 to +35 °C
Total harmonic distortion	10 %		
		Initial Performance (IEC Compliant)	
Controls and Dimming		Luminous flux tolerance	+/-10%
Dimmable	Yes	Initial chromaticity	(0.38, 0.38) SDCM ≤3
Driver/power unit/transformer	Sensor ready driver Interact System ready	Power consumption tolerance	+/-10%
Control interface	Wireless	Standard Deviation of Colour Matching	SDCM≤3
Constant light output	No	(McAdam ellipse)	
Maximum dim level	1%		
Connectivity	Interact Ready	Over Time Performance (IEC Complian	nt)
Embedded control	Upgradable sensor slot with SNS210 sensor	Control gear failure rate at median useful life 50000 h	2.5 %
Mechanical and Housing		Control gear failure rate at median useful	5 %
Mechanical and Housing	Stool	life 100000 h	J.0
Housing Material	Steel	the 100000 H	

PowerBalance gen2

Lumen maintenance at median useful life *	L90
50000 h	
Lumen maintenance at median useful life*	L80
100000 h	
Product Data	
Order product name	RC463B 34S/840 SRD W62L62 VPC U4 UE
Full product name	RC463B 34S/840 SRD W62L62 VPC U4 UE
Full product code	872016910945200

Order code	910505103641	
Material Nr. (12NC)	910505103641	
Numerator - Quantity Per Pack	1	
EAN/UPC - Product/Case	8720169109452	
Numerator - Packs per outer box	1	
EAN/UPC - Case	8720169109452	
Product family code	RC461B [PowerBalance recessed]	

Dimensional drawing





© 2024 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.