



PowerBalance gen2

RC463B 40S/940 SRD W62L62 VPC U4

PowerBalance gen2, 29 W, 620x620 mm, VPC, 4000 lm, 4000 K, CRI≥90, 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, 2025, January 10 data subject to change

PowerBalance gen2

General Information		Mechanical and Housing	
Light source replaceable	No	Housing Material	Steel
Number of gear units	1 unit	Reflector material	Polycarbonate
Driver included	Yes	Optic material	Polycarbonate
Service tag	Yes	Optical cover material	Polycarbonate
Lighting Technology	LED	Fixation material	-
Value ladder	Specification	Housing Color	White RAL 9003
Serviceability class	Class B, luminaire is equipped with some	Optical cover finish	Opal
	serviceable parts (when applicable): driver,	Reflector Finish	White reflector
	control units, surge protection device, front	Overall length	622 mm
	cover and mechanical parts	Overall width	622 mm
Warranty period	5 years	Overall height	82 mm
Sustainability rating	Lighting for circularity Lighting for	Dimensions (Height x Width x Depth)	82 x 622 x 622 mm
	wellbeing	Compatible ceiling or ceiling installation	Visible profile ceiling version
		accessory type	
Light Technical		Optical finish	Opal
Luminous Flux	4,000 lm	Ingress protection code	IP20/40 [Finger-protected, Emitting
Saturated Red (R9)	>50		surface]
Correlated Color Temperature (Nom)	4000 K	Mech. impact protection code	IK03 [0.35 J reinforced]
Luminous Efficacy (rated) (Nom)	138 lm/W	Explosion hazard class	-
Color rendering index (CRI)	≥90	Mounting	Recessed
Beam angle of light source	120 degree(s)	Net Weight (Piece)	4.900 kg
Light source color	940 neutral white		
Optic type	Wide beam office compliant	Emergency Operation	
Luminaire light beam spread	86°	Central Emergency	No
	16	For any and the latter of	
Unified glare rating CEN	10	Emergency lighting	-
Unified glare rating CEN	10	Emergency lighting	<u>-</u>
Operating and Electrical	10	Approval and Application	-
	50 to 60 Hz		Temperature 650 °C, duration 30 s
Operating and Electrical		Approval and Application	Temperature 650 °C, duration 30 s For mounting on normally flammable
Operating and Electrical Line Frequency	50 to 60 Hz	Approval and Application Glow-wire test	
Operating and Electrical Line Frequency Inrush current	50 to 60 Hz 20 A	Approval and Application Glow-wire test	For mounting on normally flammable
Operating and Electrical Line Frequency Inrush current Inrush time	50 to 60 Hz 20 A 0.216 ms	Approval and Application Glow-wire test Flammability mark	For mounting on normally flammable surfaces
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption	50 to 60 Hz 20 A 0.216 ms 29 W	Approval and Application Glow-wire test Flammability mark CE mark	For mounting on normally flammable surfaces Yes
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction)	50 to 60 Hz 20 A 0.216 ms 29 W 0.9	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark	For mounting on normally flammable surfaces Yes ENEC mark
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark Photobiological risk	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to EN62778
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable Number of products on MCB of 16 A type B	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief -	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark Photobiological risk EU ROHS compliant	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to EN62778 Yes
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable Number of products on MCB of 16 A type B UL Type	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief - 24 Type B - bypass the ballast	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark Photobiological risk EU RoHS compliant Performance ambient temperature Tq	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to EN62778 Yes 25 °C
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable Number of products on MCB of 16 A type B UL Type	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief - 24 Type B - bypass the ballast Yes (relates to presence/ movement	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark Photobiological risk EU RoHS compliant Performance ambient temperature Tq Flickering value (PstLM) - Flickering value	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to EN62778 Yes 25 °C
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable Number of products on MCB of 16 A type B UL Type Suitable for random switching	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief - 24 Type B - bypass the ballast Yes (relates to presence/ movement detection and daylight harvesting)	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark Photobiological risk EU RoHS compliant Performance ambient temperature Tq Flickering value (PstLM) - Flickering value as per EN 61000-3-3	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to EN62778 Yes 25 °C 1
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable Number of products on MCB of 16 A type B UL Type Suitable for random switching Protection class IEC	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief - 24 Type B - bypass the ballast Yes (relates to presence/ movement detection and daylight harvesting) Safety class I	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark Photobiological risk EU RoHS compliant Performance ambient temperature Tq Flickering value (PstLM) - Flickering value as per EN 61000-3-3 Stroboscopic effect visibility measure	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to EN62778 Yes 25 °C 1
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable Number of products on MCB of 16 A type B UL Type Suitable for random switching Protection class IEC	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief - 24 Type B - bypass the ballast Yes (relates to presence/ movement detection and daylight harvesting) Safety class I	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark Photobiological risk EU RoHS compliant Performance ambient temperature Tq Flickering value (PstLM) - Flickering value as per EN 61000-3-3 Stroboscopic effect visibility measure (SVM)	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to EN62778 Yes 25 °C 1
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable Number of products on MCB of 16 A type B UL Type Suitable for random switching Protection class IEC Total harmonic distortion	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief - 24 Type B - bypass the ballast Yes (relates to presence/ movement detection and daylight harvesting) Safety class I	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark Photobiological risk EU RoHS compliant Performance ambient temperature Tq Flickering value (PstLM) - Flickering value as per EN 61000-3-3 Stroboscopic effect visibility measure (SVM)	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to EN62778 Yes 25 °C 1
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable Number of products on MCB of 16 A type B UL Type Suitable for random switching Protection class IEC Total harmonic distortion Controls and Dimming	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief - 24 Type B - bypass the ballast Yes (relates to presence/ movement detection and daylight harvesting) Safety class I 20 %	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark Photobiological risk EU RoHS compliant Performance ambient temperature Tq Flickering value (PstLM) - Flickering value as per EN 61000-3-3 Stroboscopic effect visibility measure (SVM) Ambient temperature range	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to EN62778 Yes 25 °C 1
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable Number of products on MCB of 16 A type B UL Type Suitable for random switching Protection class IEC Total harmonic distortion Controls and Dimming Dimmable	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief - 24 Type B - bypass the ballast Yes (relates to presence/ movement detection and daylight harvesting) Safety class I 20 %	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark Photobiological risk EU RoHS compliant Performance ambient temperature Tq Flickering value (PstLM) - Flickering value as per EN 61000-3-3 Stroboscopic effect visibility measure (SVM) Ambient temperature range Initial Performance (IEC Compliant)	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to EN62778 Yes 25 °C 1 0.4 +10 to +35 °C
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable Number of products on MCB of 16 A type B UL Type Suitable for random switching Protection class IEC Total harmonic distortion Controls and Dimming Dimmable Driver/power unit/transformer	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief - 24 Type B - bypass the ballast Yes (relates to presence/ movement detection and daylight harvesting) Safety class I 20 % Yes Sensor ready driver Interact System ready	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark Photobiological risk EU RoHS compliant Performance ambient temperature Tq Flickering value (PstLM) - Flickering value as per EN 61000-3-3 Stroboscopic effect visibility measure (SVM) Ambient temperature range Initial Performance (IEC Compliant) Luminous flux tolerance	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to EN62778 Yes 25 °C 1 0.4 +10 to +35 °C +/-10%
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable Number of products on MCB of 16 A type B UL Type Suitable for random switching Protection class IEC Total harmonic distortion Controls and Dimming Dimmable Driver/power unit/transformer Control interface	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief - 24 Type B - bypass the ballast Yes (relates to presence/ movement detection and daylight harvesting) Safety class I 20 % Yes Sensor ready driver Interact System ready Wireless	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark Photobiological risk EU RoHS compliant Performance ambient temperature Tq Flickering value (PstLM) - Flickering value as per EN 61000-3-3 Stroboscopic effect visibility measure (SVM) Ambient temperature range Initial Performance (IEC Compliant) Luminous flux tolerance Initial chromaticity	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to EN62778 Yes 25 °C 1 0.4 +10 to +35 °C +/-10% (0.38, 0.38) SDCM ≤3
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable Number of products on MCB of 16 A type B UL Type Suitable for random switching Protection class IEC Total harmonic distortion Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief - 24 Type B - bypass the ballast Yes (relates to presence/ movement detection and daylight harvesting) Safety class I 20 % Yes Sensor ready driver Interact System ready Wireless No	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark Photobiological risk EU RoHS compliant Performance ambient temperature Tq Flickering value (PstLM) - Flickering value as per EN 61000-3-3 Stroboscopic effect visibility measure (SVM) Ambient temperature range Initial Performance (IEC Compliant) Luminous flux tolerance Initial chromaticity Power consumption tolerance	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to EN62778 Yes 25 °C 1 0.4 +10 to +35 °C +/-10% (0.38, 0.38) SDCM ≤3 +/-10%
Operating and Electrical Line Frequency Inrush current Inrush time Power Consumption Power Factor (Fraction) Connection Cable Number of products on MCB of 16 A type B UL Type Suitable for random switching Protection class IEC Total harmonic distortion Controls and Dimming Dimmable Driver/power unit/transformer Control interface Constant light output Maximum dim level	50 to 60 Hz 20 A 0.216 ms 29 W 0.9 Push-in connector and pull relief - 24 Type B - bypass the ballast Yes (relates to presence/ movement detection and daylight harvesting) Safety class I 20 % Yes Sensor ready driver Interact System ready Wireless No 1%	Approval and Application Glow-wire test Flammability mark CE mark ENEC mark Photobiological risk EU RoHS compliant Performance ambient temperature Tq Flickering value (PstLM) - Flickering value as per EN 61000-3-3 Stroboscopic effect visibility measure (SVM) Ambient temperature range Initial Performance (IEC Compliant) Luminous flux tolerance Initial chromaticity Power consumption tolerance Standard Deviation of Colour Matching	For mounting on normally flammable surfaces Yes ENEC mark Photobiological risk group 1 @200mm to EN62778 Yes 25 °C 1 0.4 +10 to +35 °C +/-10% (0.38, 0.38) SDCM ≤3 +/-10%

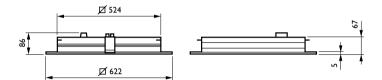
PowerBalance gen2

Over Time Performance (IEC Compliant)			
Control gear failure rate at median useful	2.5 %		
life 50000 h			
Control gear failure rate at median useful	5 %		
life 100000 h			
Lumen maintenance at median useful life*	L90		
50000 h			
Lumen maintenance at median useful life*	L75		
100000 h			

Full product name	RC463B 40S/940 SRD W62L62 VPC U4	
Full product code	871869998035100	
Order code	910505101715	
Material Nr. (12NC)	910505101715	
Numerator - Quantity Per Pack	1	
EAN/UPC - Product/Case	8718699980351	
Numerator - Packs per outer box	1	
EAN/UPC - Case	8718699980351	
Product family code	RC463B [PowerBalance recessed]	

Dimensional drawing

Product Data
Order product name



RC463B 40S/940 SRD W62L62 VPC U4



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