



PowerBalance gen2

RC463B 28S/940 PSD W62L62 VPC W3W2

PowerBalance gen2, 20 W, 620x620 mm, VPC, 2800 lm, 4000 K, CRI≥90, DALI, UGR16, Wieland

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 20 data subject to change

PowerBalance gen2

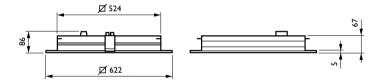
General Information		Driver / newer unit / transformer	Dower supply unit with DALL interface
	LEDOGG II ED averdade evertere flore 2000	Driver/power unit/transformer	Power supply unit with DALI interface
Lamp family code	LED28S [LED module, system flux 2800	Control interface	DALI
	lm]	Constant light output	No
Light source replaceable	No	DALI Standard	DALI-2™
Number of gear units	1 unit	Maximum dim level	1%
Gear		Embedded control	-
Driver included	Yes		
Service tag	Yes	Mechanical and Housing	
Lighting Technology	LED	Housing Material	Steel
Value ladder	Specification	Reflector material	Polycarbonate
Serviceability class	Class B, luminaire is equipped with some	Optic material	Polycarbonate
	serviceable parts (when applicable):	Optical cover material	Polycarbonate
	driver, control units, surge protection	Fixation material	-
	device, front cover and mechanical parts	Housing Color	White RAL 9003
Warranty period	5 years	Optical cover finish	Opal
Sustainability rating	Lighting for circularity Lighting for	Reflector Finish	White reflector
	wellbeing	Overall length	622 mm
		Overall width	622 mm
Light Technical		Overall height	86 mm
Luminous Flux	2,800 lm	Dimensions (Height x Width x Depth)	86 x 622 x 622 mm
Saturated Red (R9)	>50	Compatible ceiling or ceiling installation	Visible profile ceiling version
Correlated Color Temperature (Nom)	4000 K	accessory type	
Luminous Efficacy (rated) (Nom)	141 lm/W	Optical finish	Opal
Color rendering index (CRI)	≥90	Ingress protection code	IP20/40 [Finger-protected, Emitting
Number of light sources	1	mgress protection code	surface]
Beam angle of light source	120 degree(s)	Mech. impact protection code	IKO3 [0.35 J reinforced]
Light source color	940 neutral white	Explosion hazard class	-
Optic type	Wide beam office compliant	Mounting	Recessed
Luminaire light beam spread	86°	Optical cover type	Polycarbonate bowl/cover
Unified glare rating CEN	16	Net Weight (Piece)	4.900 kg
		Net Weight (Fiece)	4.500 kg
Operating and Electrical		Emorgoney Operation	
Line Frequency	50 to 60 Hz	Emergency Operation	Na
Inrush current	23.1 A	Central Emergency	No
Inrush time		Emergency lighting	-
	0.221 ms		
Power Consumption	20 W	Approval and Application	
Power Factor (Fraction)	0.9	Glow-wire test	Temperature 650 °C, duration 30 s
Connection	Plug-in connector 3-pole Wieland/Adels	Flammability mark	For mounting on normally flammable
	compatible and 2-pole control signal for		surfaces
	light regulation	CE mark	Yes
Cable	-	ENEC mark	ENEC mark
Number of products on MCB of 16 A type B	22	Photobiological risk	Photobiological risk group 1 @200mm t
UL Type	Type B - bypass the ballast		EN62778
Suitable for random switching	No	EU RoHS compliant	Yes
Protection class IEC	Safety class I	Performance ambient temperature Tq	25 ℃
Total harmonic distortion	20 %	Flickering value (PstLM) - Flickering value as	1
		per EN 61000-3-3	
Wiring		Stroboscopic effect visibility measure (SVM)	0.4
Connector Type	Wieland	Ambient temperature range	+10 to +35 °C
Controls and Dimming		Initial Performance (IEC Compliant)	
Dimmable	Yes	Luminous flux tolerance	+/-10%

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Initial chromaticity	(0.38, 0.38) SDCM ≤3	
Power consumption tolerance	+/-10%	
Standard Deviation of Colour Matching	SDCM≤3	
(McAdam ellipse)		
Over Time Performance (IEC Compliant)		
Control gear failure rate at median useful life	2.5 %	
50000 h		
Control gear failure rate at median useful life	5 %	
100000 h		
Lumen maintenance at median useful life*	L90	
50000 h		
Lumen maintenance at median useful life*	L80	
100000 h		
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Product Data		
Order product name	RC463B 28S/940 PSD W62L62 VPC	
	W3W2	
Full product name	RC463B 28S/940 PSD W62L62 VPC	
	W3W2	
Full product code	871869996457300	
Order code	910505100251	
Material Nr. (12NC)	910505100251	
Numerator - Quantity Per Pack	1	
EAN/UPC - Product/Case	8718699964573	
Numerator - Packs per outer box	1	
EAN/UPC - Case	8718699964573	
Product family code	RC463B [PowerBalance recessed]	

Dimensional drawing





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