

# PowerBalance gen2

## RC463B G2 LED28S/840 PSD W62L62 VPC PIP

PowerBalance recessed, Generation 2, LED module, system flux 2800 lm, 840 neutral white, Power supply unit with DALI interface, Push-in connector and pull relief

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 <gt/>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, 2023, December 4 data subject to change

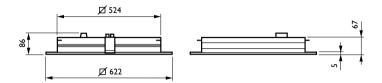
# PowerBalance gen2

General Information		Temperature	
Lamp family code	LED28S [LED module, system flux 2800 lm]	Ambient temperature range	+10 to +40 °C
Cap-Base	- [-]		
Light source replaceable	No	Controls and Dimming	
Number of gear units	1 unit	Dimmable	Yes
Driver included	Yes	Driver/power unit/transformer	Power supply unit with DALI interface
Remarks	*-Per Lighting Europe guidance paper	Control interface	DALI
	"Evaluating performance of LED based	Constant light output	No
	luminaires - January 2018": statistically there		
	is no relevant difference in lumen	Mechanical and Housing	
	maintenance between B50 and for example	Housing Material	Steel
	B10. Therefore, the median useful life (B50)	Reflector material	Polycarbonate
	value also represents the B10 value.	Optic material	-
Service tag	Yes	Optical cover material	Polycarbonate
Product family code	RC463B [PowerBalance recessed]	Fixation material	-
Lighting Technology	LED	Housing Color	White RAL 9003
Value ladder	Specification	Optical cover finish	Matte
Embedded control		Overall length	622 mm
CE mark	Yes	Overall width	622 mm
Warranty period	5 years	Overall height	86 mm
Flammability mark	For mounting on normally flammable	Dimensions (Height x Width x Depth)	86 x 622 x 622 mm
	surfaces		
ENEC mark	ENEC plus mark	Approval and Application	
Glow-wire test	Temperature 850 °C, duration 5 s	Ingress protection code	IP20 [Finger-protected]
EU RoHS compliant	Yes	Mech. impact protection code	IKO2 [0.2 J standard]
		Protection class IEC	Safety class I
Light Technical			
Luminous Flux	2,800 lm	Initial Performance (IEC Compliant)	
Saturated Red (R9)	>50	Luminous flux tolerance	+/-10%
Correlated Color Temperature (Nom)	4000 K	Initial chromaticity	(0.38, 0.38) SDCM <3
Luminous Efficacy (rated) (Nom)	137 lm/W	Power consumption tolerance	+/-10%
Color rendering index (CRI)	≥80		
Number of light sources	1	Over Time Performance (IEC Compli	ant)
Light source color	840 neutral white	Control gear failure rate at median useful	5 %
Optic type		life 50000 h	
Optical cover type	Polycarbonate bowl/cover	Lumen maintenance at median useful life*	' L90
Luminaire light beam spread	86°	50000 h	
Unified glare rating CEN	16		
		<b>Application Conditions</b>	
Operating and Electrical		Performance ambient temperature Tq	25 °C
Input Voltage	220-240 V	Maximum dim level	1%
Line Frequency	50 to 60 Hz	Suitable for random switching	No
Inrush current	5 A		
Inrush time	1 ms	Product Data	
Power Consumption	20.5 W	Order product name	RC463B G2 LED28S/840 PSD W62L62 VPC
Power Factor (Fraction)	0.9		PIP
Connection	Push-in connector and pull relief	Full product name	RC463B G2 LED28S/840 PSD W62L62 VPC
Cable			PIP
Number of products on MCB of 16 A type	20	Full product code	871829127196300
В		Order code	910502011403
		Material Nr. (12NC)	910502011403
		Numerator - Quantity Per Pack	1
		-	

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EAN/UPC - Product/Case	8718291271963
Numerator - Packs per outer box	1
EAN/UPC - Case	8718291271963

## Dimensional drawing





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