

PassivePAQ HighPower
for Sport and Strada 2x2
DATASHEET

PassivePAQ HighPower for Sport and Strada 2x2

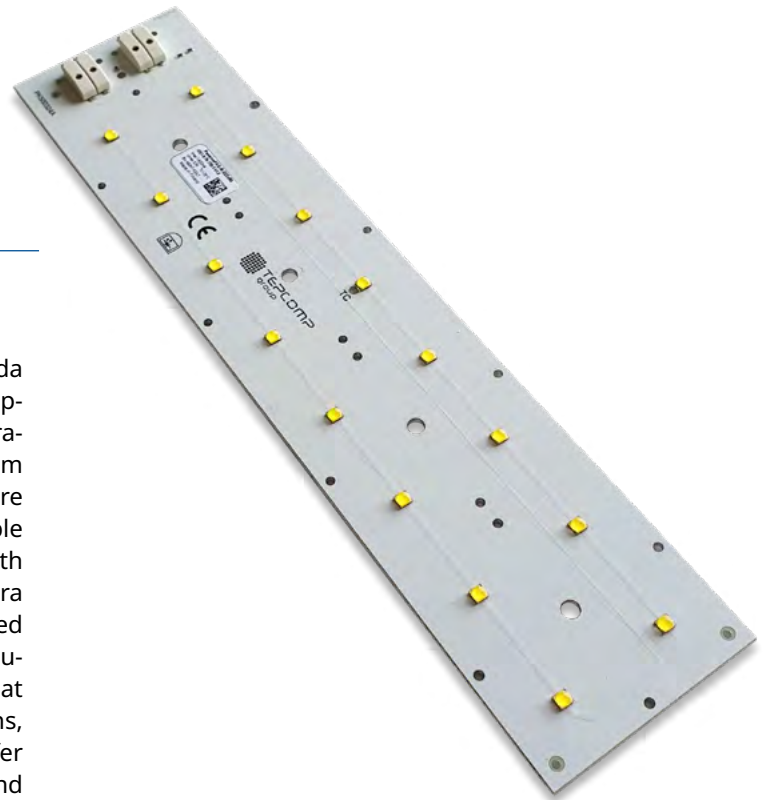
PRODUCT DESCRIPTION

DA-Group's PassivePAQ HighPower for Sport and Strada 2x2 LEDiL® optics offers a flexible solution for various applications and needs when using LEDiL® Sport or Strada 2x2 optics. These PassivePAQ boards support Osram Oslon® Square and SSL high power LEDs and therefore multiple different variants of these boards are available for different needs. When combining these boards with LEDiL® Sport 2x2 optics and DA-Group's PowerPAQ ultra low flicker LED drivers, the result is an uncompromised combination of components for building sport arena luminaires with exceptional performance. Another great application of these boards is horticulture applications, since above mentioned Osram Oslon® LEDs also offer a wide selection of LEDs with different wavelengths and LEDiL® Strada* 2x2 optics offers a wide selection of light patterns. DA-Group's PowerPAQ 540 W and 300 W high power LED drivers are superior in flexibility with wide range of software configurable features and offer an ultra-low flicker performance. Contact DA-Group's sales to discuss these various options in more details since this datasheet only presents three examples among a wide range of variants built with these boards.

5 YEARS LIMITED WARRANTY

DA-Group takes pride in the quality of its products. We not only develop all products in house, they are also produced in our own manufacturing plants to ensure guaranteed reliability and performance. DA-Group's PassivePAQ modules come with the assurance of 5 years warranty. For details and conditions please refer to our warranty policy.

CERTIFICATES AND STANDARDS



KEY FEATURES

- Optimized for LEDiL® Sport and Strada 2x2 optics
- Support Osram Oslon® Square and SSL LEDs
- Efficacy up to 190 lm/W
- Small colour tolerance (SDCM < 3)
(subject to LED availability)
- Various CCT's and single color wavelengths available
- CRI 90, CRI 80 and CRI 70 variants available
(subject to LED availability)
- > 2 W / mK metal core PCB laminate for optimal thermal performance
- Uin maximum 430V (creepage).
- Simple installation of optics and module with M3 screws
- DA-Group's PowerPAQ 540 W and 300 W compatible
- Built-in NTC for thermal protection with driver

TECHNICAL DATA *

Parameter	Unit	PassivePAQ High-Power Oslon® Square 2200K	PassivePAQ High-Power Oslon® Square 5000K	PassivePAQ HighPower Oslon® Square 450/660nm
Dimensions	mm	222 x 50 x 1,6	222 x 50 x 1,6	222 x 50 x 1,6
CRI		> 70	> 70	N/A
CCT	K	2200	5000	N/A
Peak wavelength	nm	N/A	N/A	450 / 660
Standard deviation of color matching	MacAdam SDCM	< 5	< 5	N/A
Max drive current	mA	1400	1400	1400
Nominal voltage	V	47	47	41
Lumen output @1400 mA	lm	7500 ± 5%	9700 ± 5%	N/A
Lumen efficacy @1400 mA	lm/W	115	148	N/A
PPF @1400 mA	umol/s	N/A	N/A	164 (29 / 135)
PPF / W @1400 mA	umol/J	N/A	N/A	3,2
Beam angle	deg	120	120	120
LED type		Osram Oslon® Square	Osram Oslon® Square	Osram Oslon® Square
No. of LEDs / module		16	16	3+13
Connector type		BJB 46.131.1001.50	BJB 46.131.1001.50	BJB 46.131.1001.50
PCB Material		MCPCB	MCPCB	MCPCB
Solder mask color		White	White	White
Tc Max	°C	125	125	125
Conformity		CE / ROHS	CE / ROHS	CE / ROHS
Uopen	V	430	430	430
On board NTC type		NCP18XV103J03RB	NCP18XV103J03RB	NCP18XV103J03RB

*Typical values @ Tc 85°C

**PassivePAQ HighPower
Oslon® Square 2200K***

		High Efficiency mode	Mid flux mode	Maximum mode
Drive current	mA	350	700	1400
Color temperature (CCT)	K	2200	2200	2200
Luminous flux	lm	2200	4200	7500
Efficacy	lm/W	147	135	115
Forward voltage (Vf) **	V	41 – 48,5	42,5 – 50	44,5 – 52,5
Power consumption	W	15	31	66

* Typical values @ Tc +85°C

** Absolute max voltage, calculated at Tc -40°C and absolute min voltage, calculated at Tc +125°C

**PassivePAQ HighPower
Oslon® Square 5000K***

		High Efficiency mode	Mid flux mode	Maximum mode
Drive current	mA	350	700	1400
Color temperature (CCT)	K	5000	5000	5000
Luminous flux	lm	2800	5400	9700
Efficacy	lm/W	189	173	148
Forward voltage (Vf) **	V	41 – 48,5	42,5 – 50	44,5 – 52,5
Power consumption	W	15	31	66

* Typical values @ Tc +85°C

** Absolute max voltage, calculated at Tc -40°C and absolute min voltage, calculated at Tc +125°C

**PassivePAQ HighPower
Oslon® Square 450/660nm***

		High Efficiency mode	Mid flux mode	Maximum mode
Drive current	mA	700	1050	1400
Color temperature	nm	450 / 660	450 / 660	450 / 660
PPF	umol/s	85	125	164
PPF / W	umol/J	3,6	3,4	3,2
Forward voltage (Vf) **	V	30,1 – 40,7	31,6 – 42,8	32,9 – 44,5
Power consumption	W	23,7	37,2	51,6

* Typical values @ Tc +85°C

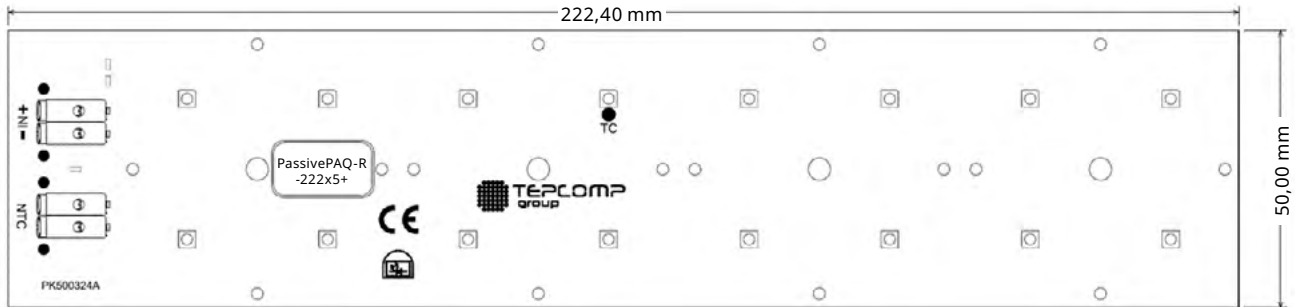
** Absolute max voltage, calculated at Tc -40°C and absolute min voltage, calculated at Tc +125°C

ORDERING DATA

Product description	Ordering code
PassivePAQ-R-222x50-OS1-9.7K-750-5, OSOLON® SQUARE 4x Sport and Strada 2x2	VP500252
PassivePAQ-R-222x50-OS1-7.5K-722-5, OSOLON® SQUARE 4x Sport and Strada 2x2	VP500253
PassivePAQ-R-222x50-OS1-HOR-164-660-450, OSOLON® SQUARE 4x Sport and Strada 2x2	VP500xxx

Please contact DA-Group sales for other configurations of this LED-board. This board can be mounted with several different Osram Oslon® high power LEDs and not all possible combinations are listed above.

PassivePAQ HighPower for Sport and Strada 2x2 MECHANICAL DIMENSIONS



Please visit DA-Group web pages to download 2D DXF and 3D step files of the LED board.

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