

S P E C I F I C A T I O N S

PRO⁺ SERIES X

SPORTS • INDUSTRY • RETAIL • LEISURE • AGRICULTURE



EASY | LED

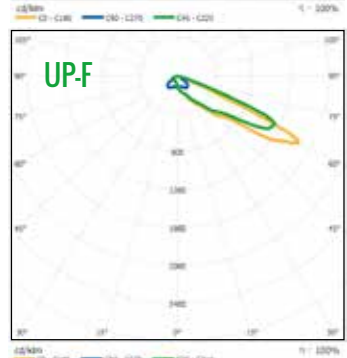
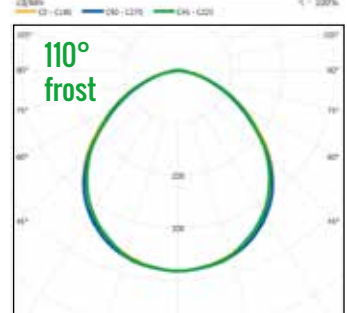
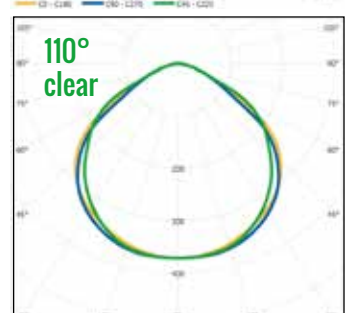
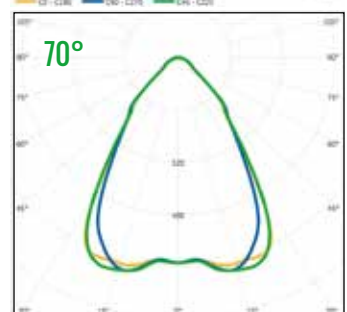
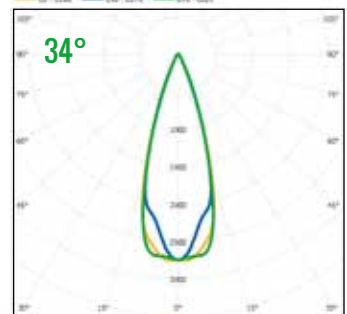
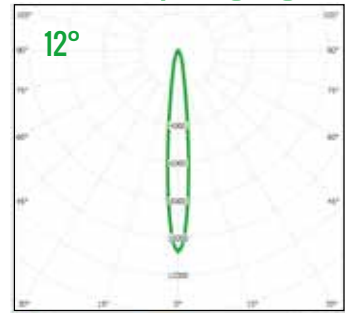
PRO+ Series X -technical details

Housing	Anodized aluminium - other surface treatments available in RAL colours, Ceramic coating for entire luminaire available for even improved wear resistance
Optics	Easy LED optimized UV-stabilized PC optics with high impact resistance
Light quality and dimming performance	HD-FF - Flicker Free dimming down to 70 mA and with PWM technology down to 7mA (400 - 500 Hz).
Protection rating	IP66, D-marking and ball impact safe. IK09 available.
Temperature range	Designed for operating temperatures of 290mA: -40°C ...+45°C with thermal protection activation at +50°C (PRO+ 4X has 5°C higher upper limits) or 350mA: -40°C ...+40°C with thermal protection activation at +45°C (PRO+ 4X has 5°C higher upper limits) or 420mA: -40°C ...+30°C with thermal protection activation at +35°C (PRO+ 4X has 5°C higher upper limits) (95 % RH)
Automatic thermal protection	Inbuilt protection with output current dimming and advanced hysteresis
LED unit lumen maintenance L90B10, C10	>200 000 h
Remaining luminous flux after 100 000 h	0,95
Control	Integrated DALI, 1-10V, CLO and Kaamos available
Connection	Preassembled rubber cable (plug available). 2x4-PE QPD-connectors for series installation with M12 for dimming control available
Safety light option	Available - 175 - 275 VDC
Input voltage	230 VAC (operation voltage range: 198 - 264 VAC)
Input frequency	50/60 Hz
Power Factor (PF) typical	> 0,95
Surge protection:	6 kV L-GND / N-GND, 4 kV L-N
Intelligent inrush current control	As standard
Luminaire protection class	CL I
Installation direction	No limits. (Not to be installed inside insulation to enable cooling)
Luminaire luminous efficacy	Up to 149 lm/W

	CRI >70	CRI >80	CRI >90
5 700K			o
5 000K	x	x	
4 000K	x	o	
3 000K	o		

x = standard
o = option

Standard opening angles





PRO+ 4X

LEDs: **120**

Weight: **5,6 kg**

Dimensions (LxWxH): **507 x 230 x 86 mm**

Delivery: **Fully assembled**

Dali addresses: **1**

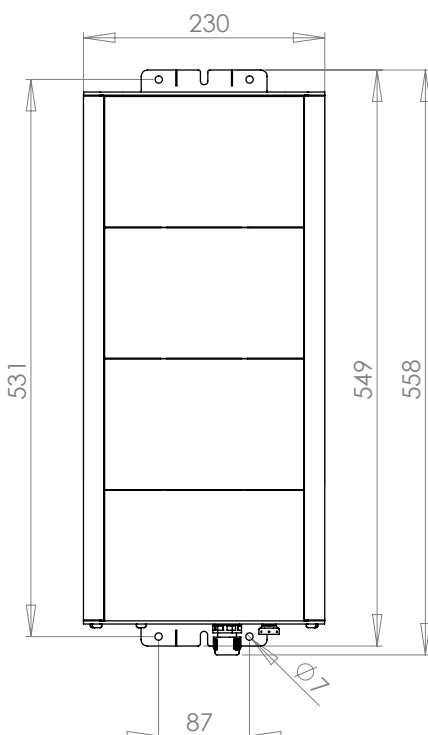
Inrush current peak: **< 4A (pulses greater than 1ms), 15A, t=170µs, 10% of Ipeak**

Earth leakage current: **0,58 mA**

Maintenance free operating life: **290mA: >100kh at +25°C, 100kh at +40°C, 50kh at +50°C**

350mA: >100kh at +25°C, 100kh at +35°C, 50kh at +45°C

420mA: >100kh at +25°C, 50kh at +35°C



Driving current [mA]	290 mA	350 mA	420 mA
System power [W]	99 W	120 W	146 W
Current [A]	0,45 A	0,55 A	0,67 A
Luminous Flux* [lm]	14 780 lm	17 350 lm	20 090 lm
Luminaire dimming range			
HDFP minimum level	25 %	20 %	18 %
Light minimum level	3 %	2 %	2 %
Power minimum level		4,4 W	

Values shown are nominal values and are subject to +/- 10% tolerance.

* Luminous flux for 750, dependent on choice of optical solution. For latest values, ask for light distribution files.

PRO⁺ 6X



LEDs: **180**

Weight: **7,6 kg**

Dimensions (LxWxH): **757 x 230 x 86 mm**

Delivery: **Fully assembled**

Dali addresses: **1**

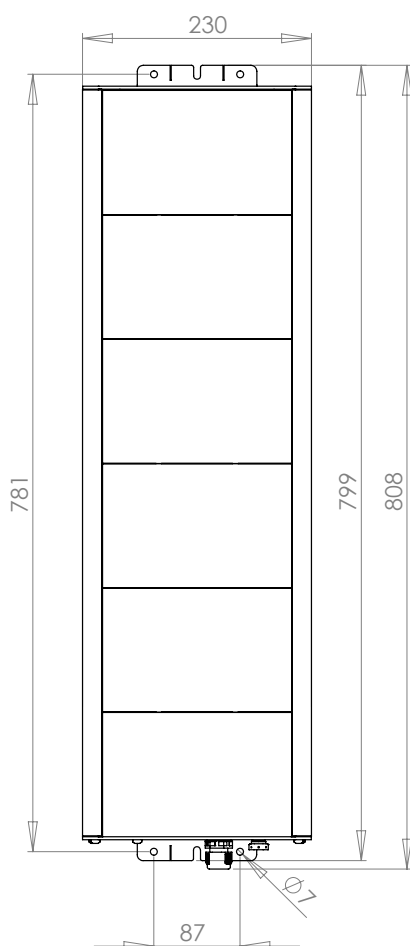
Inrush current peak: **< 4A (pulses greater than 1ms), 15A, t=170µs, 10% of Ipeak**

Earth leakage current: **0,61 mA**

Maintenance free operating life: **290mA: >100kh at +25°C, 100kh at +35°C, 50kh at +45°C**

350mA: >100kh at +25°C, 100kh at +30°C, 50kh at +40°C

420mA: >100kh at +20°C, 70kh at +25°C, 50kh at +30°C



Driving current [mA]	290 mA	350 mA	420 mA
System power [W]	149 W	180 W	218 W
Current [A]	0,68 A	0,82 A	1,00 A
Luminous Flux* [lm]	21 980 lm	25 850 lm	30 130 lm
Luminaire dimming range			
HDFP minimum level	25 %	20 %	18 %
Light minimum level	3 %	2 %	2 %
Power minimum level	5,3 W		

Values shown are nominal values and are subject to +/- 10% tolerance.

* Luminous flux for 750, dependent on choice of optical solution. For latest values, ask for light distribution files.



PRO+ 8X

LEDs: **240**

Weight: **9,7 kg**

Dimensions (LxWxH): **1007 x 230 x 84 mm**

Delivery: **Without back mounting**

Dali addresses: **1**

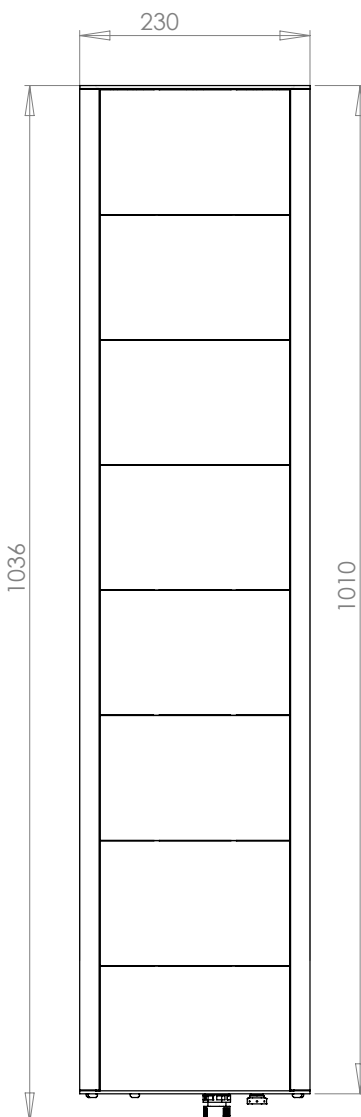
Inrush current peak: **< 4A (pulses greater than 1ms), 15A, t=170µs, 10% of Ipeak**

Earth leakage current: **0,69 mA**

Maintenance free operating life: **290mA: >100kh at +25°C, 100kh at +35°C, 50kh at +45°C**

350mA: >100kh at +25°C, 100kh at +30°C, 50kh at +40°C

420mA: >100kh at +20°C, 70kh at +25°C, 50kh at +30°C



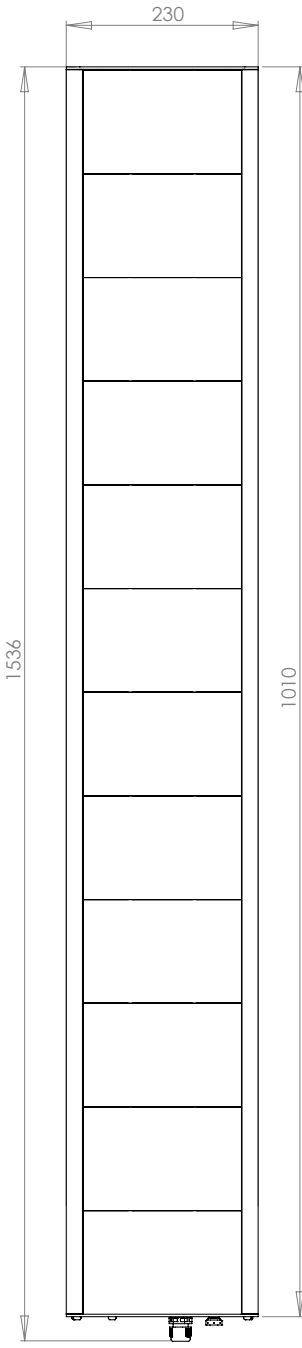
Driving current [mA]	290 mA	350 mA	420 mA
System power [W]	198 W	240 W	286 W
Current [A]	0,91 A	1,10 A	1,31 A
Luminous Flux* [lm]	29 190 lm	34 360 lm	40 040 lm
Luminaire dimming range			
HDFP minimum level	25 %	20 %	18 %
Light minimum level	3 %	2 %	2 %
Power minimum level		6,4 W	

Values shown are nominal values and are subject to +/- 10% tolerance.

* Luminous flux for 750, dependent on choice of optical solution. For latest values, ask for light distribution files.



PRO+ 12X



- LEDs: **360**
- Weight: **14,9 kg**
- Dimensions (LxWxH): **1507 x 230 x 84 mm**
- Delivery: **Without back mounting**
- Dali addresses: **2**
- Inrush current peak: **< 8A (pulses greater than 1ms), 30A, t=170µs, 10% of Ipeak**
- Earth leakage current: **1,15 mA**
- Maintenance free operating life:
 - 290mA: >100kh T +25°C, 100kh T +35°C, 50kh T +45°C**
 - 350mA: >100kh T +25°C, 100kh T +30°C, 50kh T +40°C**
 - 420mA: >100kh T +20°C, 70kh T +25°C, 50kh T +30°C**

Driving current [mA]	290 mA	350 mA	420 mA
System power [W]	298 W	360 W	436 W
Current [A]	1,36 A	1,65 A	2,00 A
Luminous Flux* [lm]	43 710 lm	51 500 lm	60 000 lm
Luminaire dimming range			
HDFP minimum level	25 %	20 %	18 %
Light minimum level	3 %	2 %	2 %
Power minimum level	10,6 W		

Values shown are nominal values and are subject to +/- 10% tolerance.
 * Luminous flux for 750, dependent on choice of optical solution. For latest values, ask for light distribution files.



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Investing in high quality LED lighting will give you value for now and far in the future. Easy LED Oy is a Finnish company specialized in manufacturing energy efficient LED-lighting for sports, industry, road, area, commercial, retail and office space lighting purposes.

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