

Edition: 05/2002 - subject to change
Status: preliminary

PLANON 18,1"/874

Technical Information for Systems:

Lamp		Inverter/ECG		Diffuser Set
PLANON 18,1"/874 2-5	+	(2x) QT PLANON 18,1"/40/24 2	+	D PLANON 18,1"/A
PLANON 18,1"/874 2-5	+	QT PLANON 18,1"/68/100-240 5	+	D PLANON 18,1"/A
PLANON 18,1"/874 6	+	(2x) QT PLANON 18,1"/40/24 6	+	D PLANON 18,1"/A

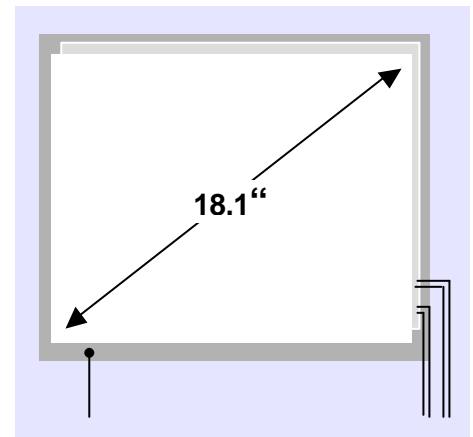
Explanations/Nomenclature:

Lamp: PLANON lamp diagonal/colour code combinable ECG type(s)

ECG: QT PLANON lamp diagonal/system power/supply voltage ECG type

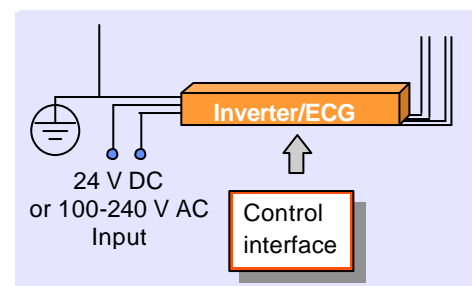
Product Features PLANON®

- **flat, mercury free discharge lamp**
for extremely flat fixtures < 20 mm
- **lamp size not limited by physical constraints**
(5 inch to 30 inch)
- **unique lighting power**
wide viewing and illumination angle
constant luminance from centre to edge
- **lamp with integrated reflector**
- **mercury free**
luminous flux not related to temperature (-30°C to +85°C)
instant light with high luminance
no ramp-on/ramp-off effects (power save mode)
no hazardous waste
- **extreme long lamp life, up to 100,000h**
(meantime to half brightness/MTTH)
absence of damage susceptible electrodes
much less severe darkening
- **switching cycles show no influence on lifetime**
- **soft illumination with virtually no shadow**
- **dimmable down to 20%**



Product Features QT PLANON

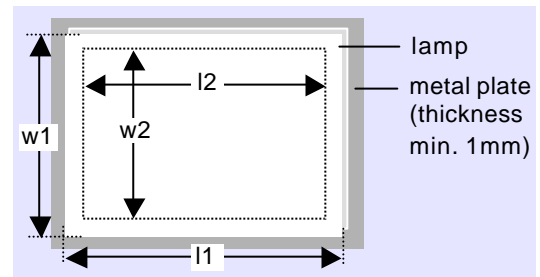
- **designed for optimising PLANON® lamp performance**
- **suitable for applications in which lamps are switched on and off frequently**
- **reliable system start-up at low temperatures**
- **safe shutdown of the power supply to defective lamps**
- **electromagnetic compatibility**
- **dimming interface**



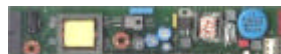
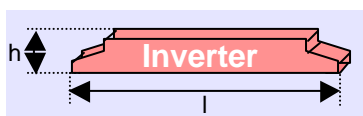
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Technical Data



	PLANON 18,1"/874 6	PLANON 18,1"/874 2-5	PLANON 18,1"/874 2-5
Outer dimensions (l1 x w1 x h)	384 mm x 317 mm x 8,5 mm	384 mm x 317 mm x 8,5 mm	384 mm x 317 mm x 8,5 mm
Illuminated area (l2 x w2)	364 mm x 292 mm	364 mm x 292 mm	364 mm x 292 mm
Weight	1350 g	1400 g	1400 g
Colour rendering	Ra86	Ra86	Ra86
Colour temperature	7400 K	7400 K	7400 K
Number of cables	6	6	6
Minimum length of cable	400 mm	400 mm	400 mm
Contact between lamp and inverter/ECG	plug (2x)	clamps	clamps (2x)
matched with inverter / ECG	QT PLANON 18,1"/40/24 6	QT PLANON 18,1"/68/100-240 5	QT PLANON 18,1"/40/24 2
Centre luminance typical after burn in (100h)	5600 cd/m ²	5900 cd/m ²	6000 cd/m ²
Centre luminance typical after burn in (100h) with standard diffuser set	4700 cd/m ²	5000 cd/m ²	5100 cd/m ²
Luminous flux	1750 lm	tbd	tbd
System wattage	80 W	90 W	91 W
Line current	3,33 A		3,79 A
System efficiency	7,4 cd/W	7,0 cd/W	7,0 cd/W
System lifetime @ 20% fraction failure	50,000 h	50,000 h	50,000 h
Maximum distance between lamp and ECG	50 cm	50 cm	50 cm



	QT PLANON 18,1"/40/24 6	QT PLANON 18,1"/68/100-240 5	QT PLANON 18,1"/40/24 2
Linear dimming range	100...20%	100...20%	*100...50%
Supply voltage	24V DC	230V AC	24V DC
Voltage range	20V...30V DC	100...240V AC	20V...30V DC
Operating frequency	40...80 kHz	40...80 kHz	40...80 kHz
Harmonic content	not applicable	IEC 1000-3-2	not applicable
Power factor	not applicable	0,9 @ 230V, full load	not applicable
Ambient temperature range ta	-20°C...60°C, 80% RH	-20°C...50°C, 80% RH	-20...70°C; 80% RH
Control temperature tc max	tbd	tbd	tbd
Dimensions (l x w x h)	200 mm x 40 mm x 20 mm	211 mm x 132 mm x 33 mm	280 mm x 42 mm x 29 mm
Weight	132 g	715 g	350 g

*For making use of the dimming capability of this type a separate potentiometer is necessary.

Safety acc. to EN 60950 / EN 60950 (in preparation)
 Radio interference suppression acc. to EN 55022, Class B (in preparation)
 Immunity to interference acc. to EN 55024 (in preparation)