

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

PLANON 10,4"/868

Technical Information for Systems:

Lamp		Inverter/ECG		Diffuser Set
PLANON 10,4"/868 6	+	QT PLANON 10,4"/20/24 6	+	D PLANON 10,4"/A
PLANON 10,4"/868 6	+	QT PLANON 10,4"/40/24 6	+	D PLANON 10,4"/A

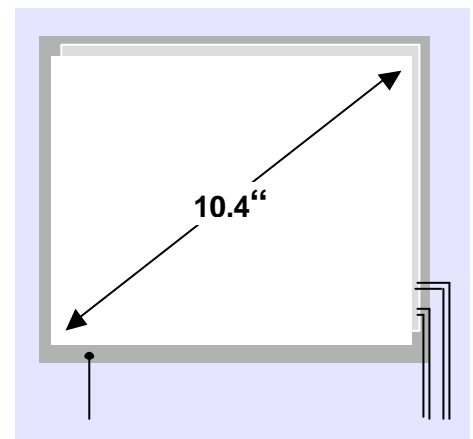
Explanations/Nomenclature:

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

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

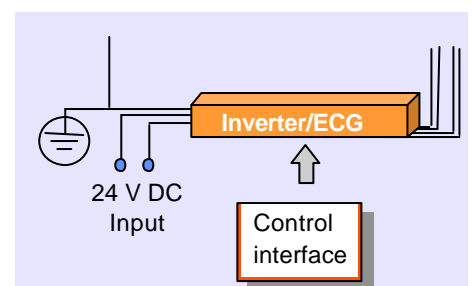
Product Features PLANON®

- **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

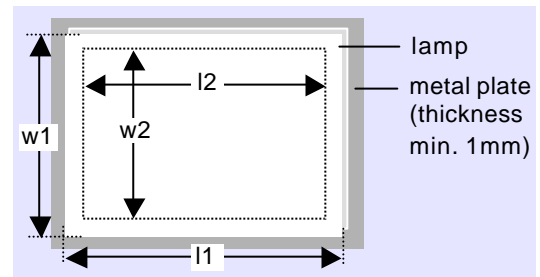
- **designed for optimising PLANON® lamp performance**
- **suitable for applications in which lamps are switched on and off frequently**
- **reliable system start-up at low temperatures**
- **safe shutdown of the power supply to defective lamps**
- **electromagnetic compatibility**
- **dimming interface**



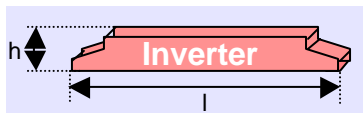
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Technical Data



	PLANON 10,4"/868 6	PLANON 10,4"/868 6
Outer dimensions (l1 x w1 x h)	231 mm x 174 mm x 8,5 mm	231 mm x 174 mm x 8,5 mm
Illuminated area (l2 x w2)	214 mm x 161 mm	214 mm x 161 mm
Weight	400 g	400 g
Colour rendering	Ra86	Ra86
Colour temperature	6800 K	6800 K
Number of cables	4	4
Minimum length of cable	260 mm	260 mm
Contact between lamp and inverter/ECG	plug	plug
matched with inverter / ECG	QT PLANON 10,4"/20/24 6	QT PLANON 10,4"/40/24 6
Centre luminance, typical after burn in (100h)	5200 cd/m ²	8800 cd/m ²
Centre luminance, typical after burn in (100h) with standard diffuser set	4400 cd/m ²	7500 cd/m ²
Luminous flux	520 lm	850 lm
System wattage	24 W	40 W
Line current	1 A	1,67 A
System efficiency	7,5 cd/W	7,6 cd/W
System lifetime @ 20% fraction failure	50,000 h	50,000 h
Maximum distance between lamp and ECG	50 cm	50 cm



	QT PLANON 10,4"/20/24 6	QT PLANON 10,4"/40/24 6
Linear dimming range	100...20%	100...20%
Supply voltage	24V DC	24V DC
Voltage range	20V...30V DC	20V...30V DC
Operating frequency	40...80 kHz	40...80 kHz
Ambient temperature range ta	-20°C...70°C, 80% RH	-20°C...60°C, 80% RH
Control temperature tc max	tbd	tbd
Dimensions (l x w x h)	200 mm x 40 mm x 20 mm	200 mm x 40 mm x 20 mm
Weight	132 g	132 g

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)