

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

PLANON 20,1"/8-10500K

Technical Information for Systems:

Lamp	Inverter/ECG	Diffuser Set
PLANON 20,1"/8-10500K 5	+ QT PLANON 20,1"/50/100-240 5	+ D PLANON 20,1"/A

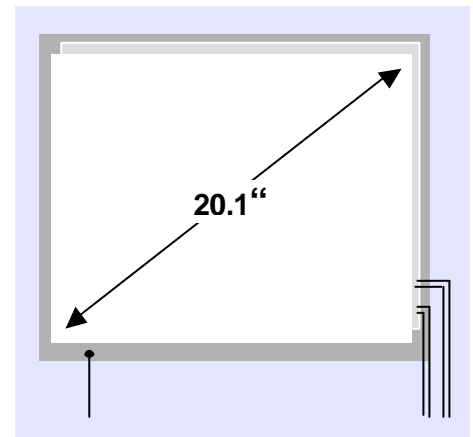
Explanations/Nomenclature:

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

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

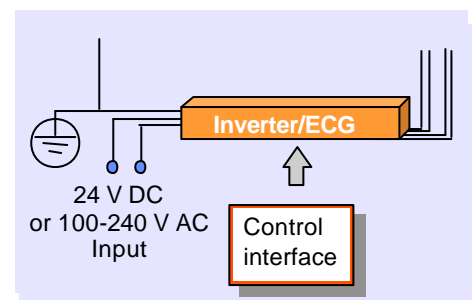
Product Features PLANON®

- **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

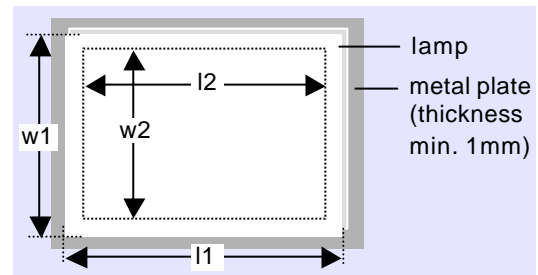
- **designed for optimising PLANON® lamp performance**
- **suitable for applications in which lamps are switched on and off frequently**
- **reliable system start-up at low temperatures**
- **safe shutdown of the power supply to defective lamps**
- **electromagnetic compatibility**
- **dimming interface**



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Technical Data



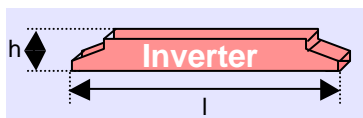
PLANON 20,1"/8-10500K 5

Outer dimensions (l1 x w1 x h)	433 mm x 320 mm x 8,5 mm
Illuminated area (l2 x w2)	408 mm x 300 mm
Weight	1650 g
Colour rendering	Ra88
Colour temperature	10500 K
Number of cables	6
Minimum length of cable	250 mm
Contact between lamp and inverter/ECG	clamps

matched with inverter / ECG

QT PLANON 20,1"/50/100-240 5

Centre luminance typical after burn in (100h)	5200 cd/m ²
Centre luminance typical after burn in (100h) with standard diffuser set	4400 cd/m ²
Luminous flux	1500 lm
System wattage	75 W
System efficiency	7,1 cd/W
System lifetime @ 20% fraction failure	50,000 h
Maximum distance between lamp and ECG	50 cm



QT PLANON 20,1"/50/100-240 5

Linear dimming range	100...20%
Supply voltage	230V AC
Voltage range	100...240V AC
Operating frequency	40...80 kHz
Harmonic content	IEC 1000-3-2
Power factor	0,9 @ 230V, full load
Ambient temperature range ta	-20°C...50°C, 80% RH
Control temperature tc max	tbd
Dimensions (l x w x h)	211 mm x 132 mm x 33 mm
Weight	715 g

Safety

Radio interference suppression
 Immunity to interference

acc. to EN 60950 / EN 60950 (in preparation)
 acc. to EN 55022, Class B (in preparation)
 acc. to EN 55024 (in preparation)