

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

PLANON 21,3"/863

Technical Information for Systems:

Lamp		Inverter/ECG		Diffuser Set
PLANON 21,3"/863 2-5	+	QT PLANON 21,3"/90/100-240 5	+	D PLANON 21,3"/A
PLANON 21,3"/863 2-5	+	(2x) QT PLANON 15,0"/50/24 2	+	D PLANON 21,3"/A

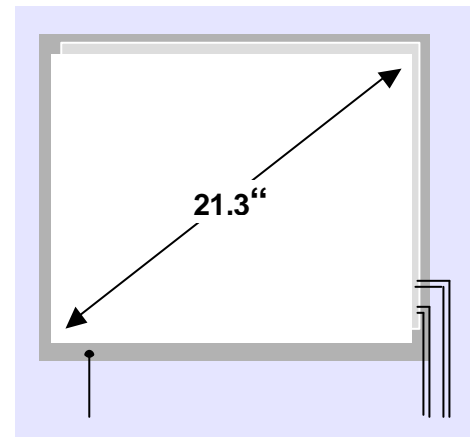
Explanations/Nomenclature:

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

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

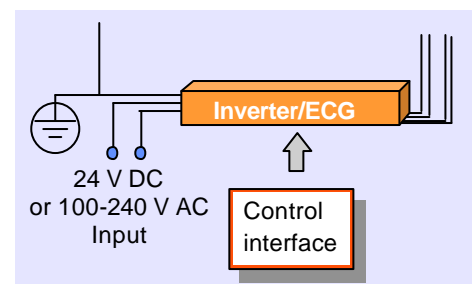
Product Features PLANON®

- **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

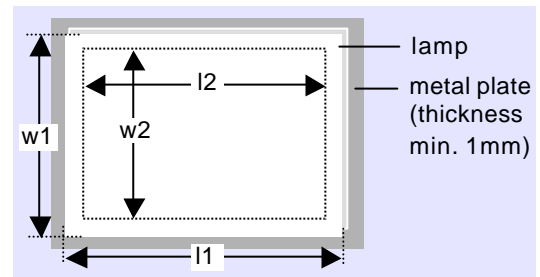
- **designed for optimising PLANON® lamp performance**
- **suitable for applications in which lamps are switched on and off frequently**
- **reliable system start-up at low temperatures**
- **safe shutdown of the power supply to defective lamps**
- **electromagnetic compatibility**
- **dimming interface**



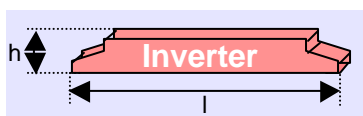
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Technical Data



	PLANON 21,3"/863 2-5	PLANON 21,3"/863 2-5
Outer dimensions (l1 x w1 x h)	452 mm x 353 mm x 8,5 mm	452 mm x 353 mm x 8,5 mm
Illuminated area (l2 x w2)	436 mm x 328 mm	436 mm x 328 mm
Weight	1850 g	1850 g
Colour rendering	Ra86	Ra86
Colour temperature	6300 K	6300 K
Number of cables	6	6
Minimum length of cable	260 mm	260 mm
Contact between lamp and inverter/ECG	clamps	clamps
matched with inverter / ECG	QT PLANON 21,3"/90/100-240 5	QT PLANON 15,0"/50/24 2 (2x)
Centre luminance typical after burn in (100h)	5800 cd/m ²	6000 cd/m ²
Centre luminance typical after burn in (100h) with standard diffuser set	5000 cd/m ²	5100 cd/m ²
Luminous flux	2200 lm	tbd
System wattage	108 W	113 W
Line current		4,7 A
System efficiency	7,7 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 21,3"/90/100-240 5	QT PLANON 15,0"/50/24 2
Linear dimming range	100...20%	*100...50%
Supply voltage	230V AC	24V DC
Voltage range	100...240V AC	20V...30V DC
Operating frequency	40...80 kHz	40...80 kHz
Harmonic content	IEC 1000-3-2	not applicable
Power factor	0,9 @ 230V, full load	not applicable
Ambient temperature range ta	-20°C...50°C, 80% RH	-20...70°C; 80% RH
Control temperature tc max	tbd	tbd
Dimensions (l x w x h)	211 mm x 132 mm x 33 mm	280 mm x 42 mm x 29 mm
Weight	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)