

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 |

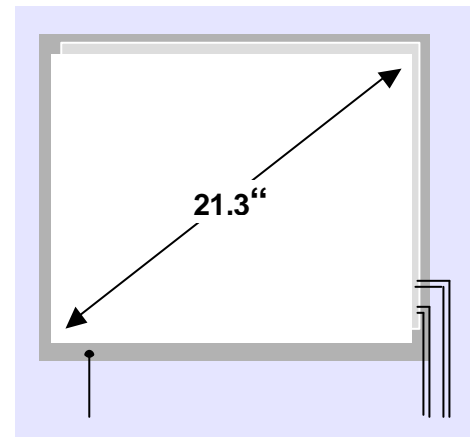
Explanations/Nomenclature:

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

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

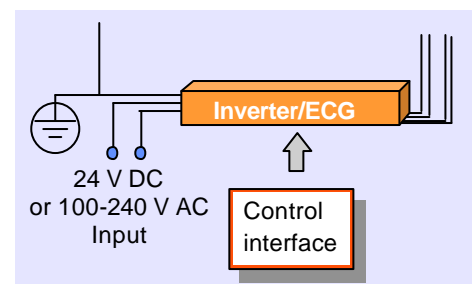
Product Features PLANON®

- **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

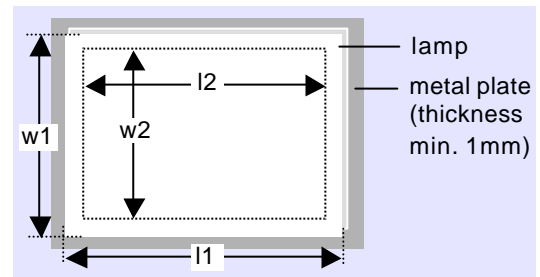
- **designed for optimising PLANON® lamp performance**
- **suitable for applications in which lamps are switched on and off frequently**
- **reliable system start-up at low temperatures**
- **safe shutdown of the power supply to defective lamps**
- **electromagnetic compatibility**
- **dimming interface**



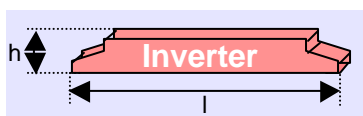
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Technical Data



| | 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)