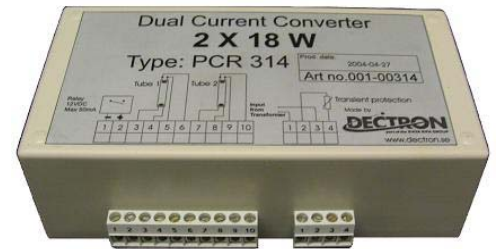




# PCR314

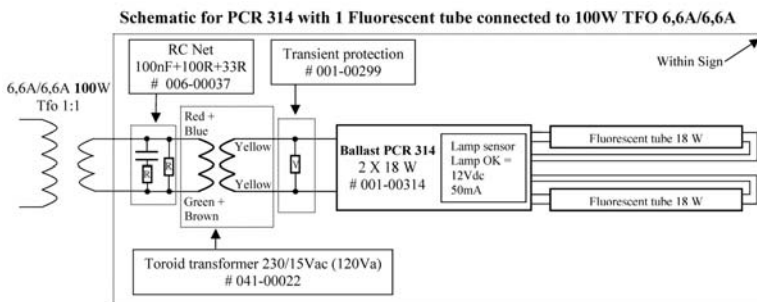
Patent Pending

**High Power factor State of the art dual Current Regulator for up to 6,6Amp in Series circuits in Airfield lighting systems**

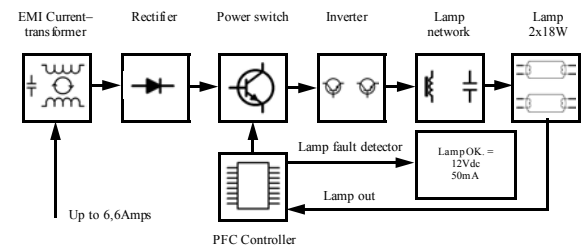


The PCR 314 Dual Current Regulator is designed for use in airfield lighting systems that use constant current up to 6,6Amp for power distribution to Information and Direction signs. The unit contains a complete lamp ballast for 2x18W fluorescent TL tubes. The PCR 314 presents a very high power factor seen by the Constant Current Regulator (CCR). This contributes to a good power-factor for the entire system and lower operating costs as result. The output 1 & 2 supply a 12Vdc, 50mA when the two TL tubes is Lighting.

## Schematic



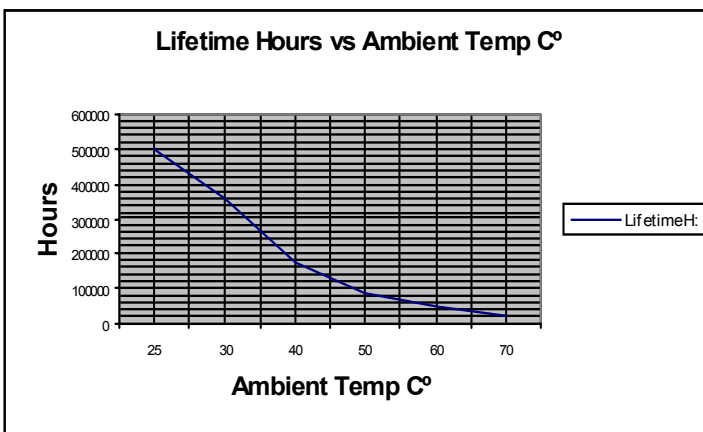
## Block diagram PCR314 Current Regulator



## Technical information

Temperature working range	- 20 to + 65 Celsius Centigrade
Relative humidity	98% RH
Mechanical dimension (mm)	Length 150 (175 overall) Width 83 Height 47
Life time	According to graph beside
Weight	900 grams
Casing	100 % plastic with compound
Fluorescent tubes	2x18W
Storage temperature range	- 20 to + 65 Celsius Centigrade

Lifetime Hours vs Ambient Temp C°



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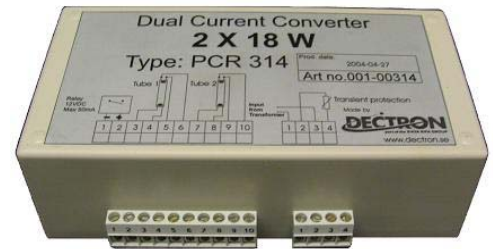
**KEMET**  
CHARGED.™



# PCR314

**High Power factor State of the art dual Current Regulator for up to 6,6Amp in Series circuits in Airfield lighting systems**

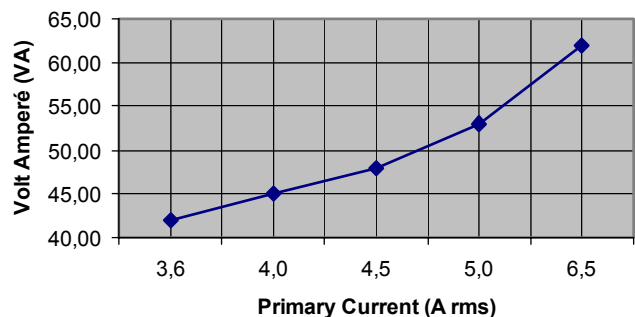
Patent Pending



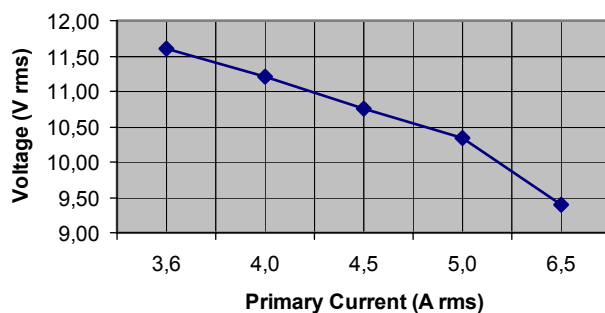
**Note:** The lowest input current to get 100 % light output is 3,6Amps @ 2,4mS on time out from the CCR.

If the CCR on time is longer can the input current be lower.

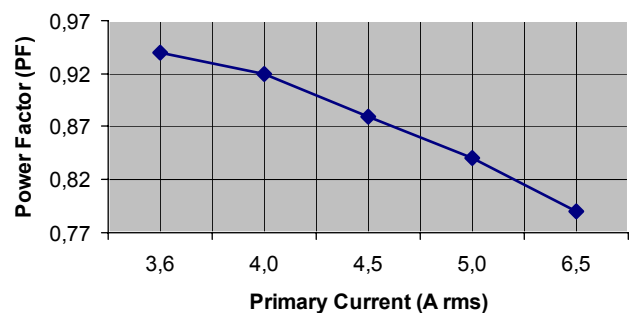
VA Consumption over Current



Primary Voltage Drop



Power Factor over Current



## Advantages

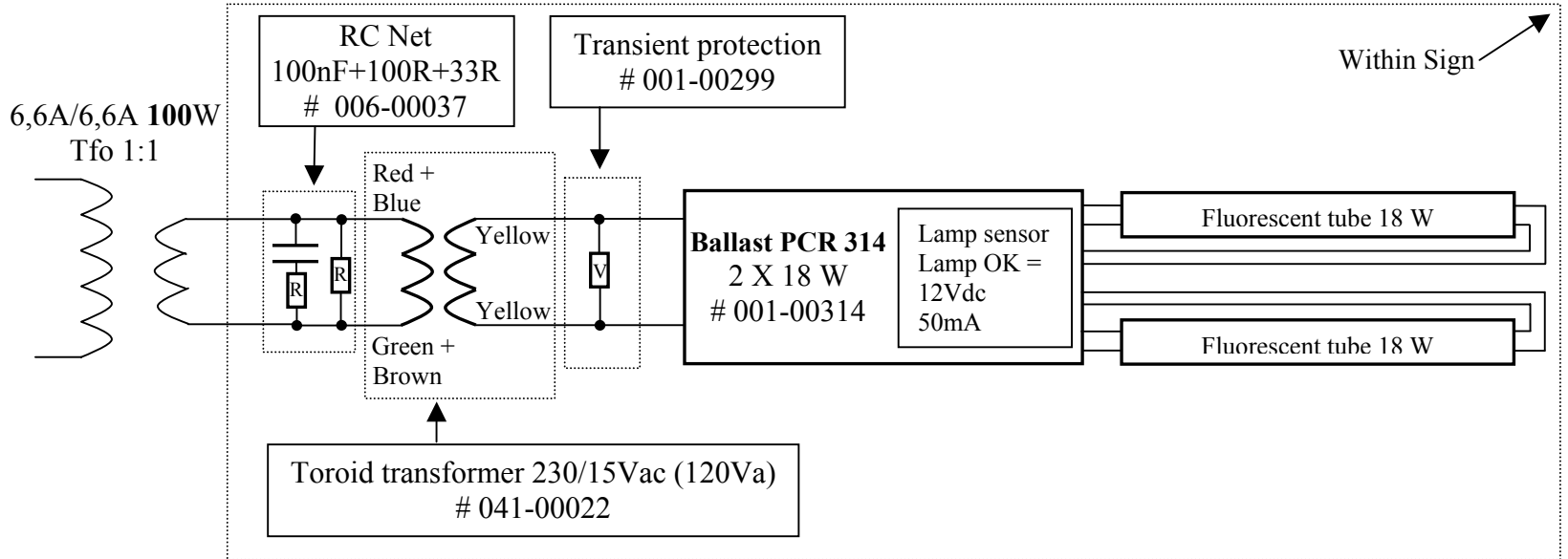
- ✓ High efficiency
- ✓ High power factor
- ✓ Constant tube light output
- ✓ Moisture-proof
- ✓ Low temperature rise
- ✓ Over voltage and over current protected (100 Amps @ 30 sec)
- ✓ Strikes a long life tube at least 20.000 times
- ✓ Conforms to EMC standards
- ✓ Long life time
- ✓ Simple installation
- ✓ Output light comparable to a magnetic ballast
- ✓ Fire resistance class ULV0

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## Schematic for PCR 314 with 1 Fluorescent tube connected to 100W TFO 6,6A/6,6A



Ljusbox  
Bild 3

