

70 W SELV Constant current LED driver

Product code: 5907

70 W 220 – 240 V 50 – 60 Hz

- SELV output protection for safety and flexibility in luminaires
- Very low current ripple, complying with IEEE 1789 recommendation
- Suitable for use in emergency lighting applications
- Suitable for Class I luminaires



Functional Description

- Adjustable constant current output: 350 mA (default) to 1400 mA
- Current setting via dip-switches
- Overload, open & short circuit protection

Mains Characteristics

Nominal rated voltage range	220 V – 240 V, 50 – 60 Hz
Rated emergency voltage range*	196 V – 250 V, 0 Hz
AC voltage range	198 VAC – 264 VAC
DC voltage range*	176 VDC - 275 VDC
Mains current at full load	0.48 A
Frequency	50 Hz – 60 Hz
THD at full power	< 10 %
Leakage current to earth	< 0.7 mA
Tested surge protection	3.5 kV L/N-GND (IEC 61000-4-5) 2 kV L-N (IEC 61000-4-5)
Tested fast transient protection	2 kV (IEC 61000-4-4)

*For emergency use, see details in page 4

Insulation between circuits & driver case

Mains circuit - SELV circuit	Double/reinforced insulation
Output - Driver case	Basic insulation
Mains input - Ground input	Double/reinforced insulation

Load Output (SELV <60 V)

Output current (I_{out})	350 mA (default) – 1400 mA
Accuracy	$\pm 7\%$ ¹⁾
Ripple	< 3 %* at ≤ 120 Hz
	*] Low frequency, LED load: Cree XP-G LEDs
U_{out} (max) (abnormal)	59 V
EOF_1 (EL use)	> 0.98 x output current with AC supply

I_{LED}	350 mA	1400 mA
P_{Rated}	19.5 W	70 W
U_{LED}	25 ²⁾ /35 - 56 V	10 - 50 V
PF (λ) at full load	0.95	0.95
Efficiency (η) at full load	86 %	89 %

1) $\pm 7\%$ tolerance down to 500 mA, below that $\pm 12.5\%$

2) ENEC certificated and verified for 35 - 56 V range, usable on the voltages below as well.