

HYL Series

1. General Information

1.1 LED Driver identification	HYL-T200-1/12/103E
1.2 LED control gear type	Buit-in
1.3 LED configuration	200 mA single channel
1.4 Type of LED's	200 mA LED or LED module
1.5 Type of protection	IP20
1.6 Suit for Luminaires	Class I

2. Input (Mains) Specifications

2.1 Nominal voltage	220...240 V _{AC}
2.2 Nominal frequency	50/60 Hz
2.3 Min. AC voltage for starting	190 V _{AC} start-up with operating temperature
2.4 AC operation on	198...264 V _{AC}
2.5 Min. DC voltage for starting	/
2.6 DC operation on	/
2.7 Surge current	/
2.8 Rated input power	≤14.5 W, @230 V _{AC}
2.9 Input current	<0.065 A, @230 V _{AC}
2.10 Power factor	>0.9, @230 V _{AC}
2.11 Input current harmonics	IEC 61000-3-2
2.12 Total harmonic distortion	≤20 %
2.13 Full-load efficiency	≥84 % (typical 86 %)
2.14 No load power consumption	≤2.0 W
2.15 Leakage current	/
2.16 Number of mains fuses	1

3. Output (Mains) Specifications

3.1 Number of channels	1
3.2 Rated output power	≤12 W, @230 V _{AC}
3.3 Min. output voltage	3 V _{DC}
3.4 Max. output voltage	60 V _{DC}
3.5 Max. declared output voltage	72 V _{DC}
3.6 Average nominal output current	20/200 mA
3.7 Output current tolerance (max)	±5 %
3.8 Dimming	
3.9 Way of dimming	
3.10 Dimming range	20 %/100 %
3.11 Open circuit proof	Yes
3.12 Overload protection	Yes
3.13 Short circuit protection	Yes
3.14 Max. cable length without LED module	≤1 m
3.15 Max. ripple current	/

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3.16	Type of output	Constant Current
3.17	Overvoltage output protection	/
3.18	Number of output channels	1
3.19	Turn-on Time	≤0.5 s

4. Temperatures and Life expectation

4.1	Min. allowed ambient Temp.	-20 °C
4.2	Max. allowed ambient Temp.	+50 °C
4.3	Allowed operating humidity range	5 %...90 %
4.4	Max. allowed T _C Temp.	75 °C
4.5	Over temperature protection	/
4.6	life time	Up to 50,000hours(25°C, max. 10% failure rate)
4.7	switching cycles during life time	Up to 10,000 cycles(25°C)

5. Immunity

5.1	Immunity against static discharge	IEC 61547
5.2	Immunity against radio frequency electric and Magnetic fields	IEC 61547
5.3	Immunity against power frequency electric and magnetic fields	IEC 61547
5.4	Immunity against transient voltage fluctuation	IEC 61547
5.5	Immunity against injected currents on AC line	IEC 61547
5.6	Immunity against surge voltage and currents (AC)	IEC 61547
5.7	Immunity against voltage dips (AC)	IEC 61547
5.8	Immunity against voltage interruptions	IEC 61547
5.9	Magnetic shielding	

6. RFI Requirements

6.1	Disturbance voltages at mains terminals according to luminaries of class II (or I)	EN 55015
6.2	Radiated disturbance voltages	EN55015

7. Safety Requirements

7.1	Cree page distance and clearances	IEC 61347-2-13
7.2	Protection against contact with live parts	IEC 61347-2-13
7.3	Voltage at ballast terminal after 1 min	IEC 61347-2-13
7.4	Max. working voltage	IEC 61347-2-13
7.5	Humidity / insulation resistance test	IEC 61347-2-13
7.6	Humidity / high voltage test	IEC 61347-2-13
7.7	Strength against mechanical damage	/

8. Installation and Wiring

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8.1 Terminals	Push type
8.2 Number of mains terminals	1 with 4 ports
8.3 Number of LED terminals	1 with 2 ports
8.4 Max. diameter of test contacts	1.2 mm
8.5 Cross section of wires (any lead)	0.5...1.5 mm ² massive leads
8.6 Max. allowed cable capacitance	150 pF
8.7 Max. allowed cable length	1.5 m
8.8 Min. distance between LED drivers	5 cm

9. LED Driver Case

9.1 Case material and identification	PC plastic, L103D/E
9.2 Case drawing Number	refer to the attached drawing
9.3 Approx. dimension	L103×W67×H25 mm
9.4 Mounting hole distance	L93.8×W57.5 mm
9.5 Mounting screws	Max. M4
9.6 Ground connection via	/
9.7 Terminal covers	Yes
9.8 Class of protection	IP20
9.9 Labelling	/
9.10 Barcode identification	/

10. Environmental Requirements

10.1 Noise produced by driver during start	/
10.2 Noise produced by driver during operation	<30 dB at distance 1 m
10.3 Labelling of plastic case	Silkscreen
10.4 Absence of dangerous materials	Yes
10.5 After end of life to be treated as	/

11. Approvals

11.1 Approval according to	CQC、CE、CB、SAA、ROHS、EMC、SABS、MEMKO
11.2 EMV approval according to	EN 55015

12. Packaging and Transport

12.1 Immunity against vibration and shock	/
12.2 Weight (g)	/
12.3 Packing unit	48 pcs/carton /
12.4 Labelling of package	according to 3AAA standards
12.5 Barcode identification of package	according to 3AAA standards

13. Dimension, Drawing Diagram and Label

13.1 Dimension	
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