

PCL Series

1. General Information

1.1 LED Driver identification

1.2 LED control gear type

1.3 LED configuration

1.4 Type of LED's

1.5 Type of protection

1.6 Suit for Luminaires

GTICC50-MATCH1050

Built in

800mA— channel ; Terminals 5—7

925mA— channel ; Terminals 5—6

1050mA — channel ; Default , Terminals open

800mA—925mA—1050mA LED or LED module

IP20

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

198 V_{AC} start-up with operating temperature

2.4 AC operation on

198...264 V_{AC}

2.5 Min. DC voltage for starting

176V_{DC}

2.6 DC operation on

176...276 V_{DC}

2.7 Surge current

/

2.8 Rated input power

≤65 W, @220 – 240 V_{AC}

2.9 Input current

<0.3 A, @220 – 240 V_{AC}

2.10 Power factor

>0.95, @220 – 240 V_{AC}

2.11 Input current harmonics

IEC 61000-3-2

2.12 Total harmonic distortion

≤10 %

2.13 Full-load efficiency

≥86 % (Full load, 220 – 240 V, 50 Hz)

2.14 No load power consumption

/

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

23 W...55 W

3.3 Min. output voltage

27 V_{DC}

3.4 Max. output voltage

54 V_{DC}

3.5 Max. declared output voltage

60V_{DC} (No load protection put output down to
roughly ...2 V)

3.6 Average nominal output current

800mA—925mA—1050mA

3.7 Output current tolerance (max)

±10 %

3.8 Dimming

/

3.9 Way of dimming

/

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3.10 Dimming range	/
3.11 Open circuit proof	/
3.12 Overload protection	Yes
3.13 Short circuit protection	Yes
3.14 Max. cable length without LED module	≤1.5 m
3.15 Max. ripple current	/
3.16 Type of output	Constant Current
3.17 Overvoltage output protection	/
3.18 Number of output channels	2 output connectors (parallel connection)]
3.19 Turn-on Time	≤1.0 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	The unit is protected against temporary overheating by automatic reduction of the output power. If to exceed 85°C approx. the output current, reduced to the lowest nominal value (800 mA);
4.6 life time	50,000h tc = 75°C, 0.3% failure rate 100,000h tc = 65°C, 0.5% failure rate
4.7 switching cycles during life time	Up to 10,000 cycles
4.8 Two or	

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	

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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

8.1 Terminals	Push type
8.2 Number of mains terminals	1 with 7 ports
8.3 Number of LED terminals	1 with 4 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	100 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	Hardware, L280D
9.2 Case drawing Number	refer to the attached drawing
9.3 Approx. dimension	L282×W30×H21.5 mm
9.4 Mounting hole distance	L267 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	/

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11. Approvals

11.1 Approval according to

CE,CB,SAA,ROHS

11.2 EMC approval according to

EN 55015

12. Packaging and Transport

12.1 Immunity against vibration and shock

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12.2 Weight (g)

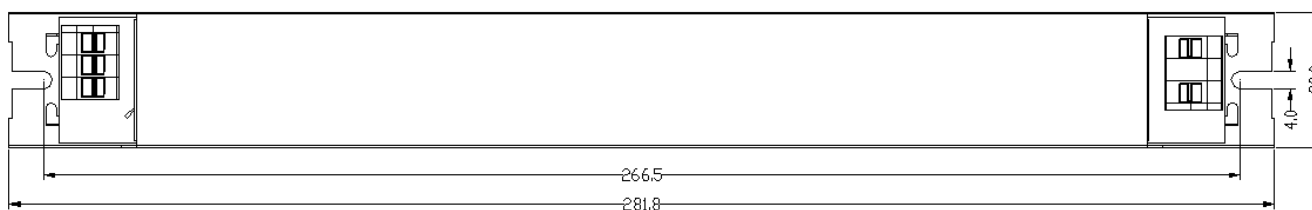
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12.3 Packing unit

30 pcs/carton

13. Dimension, Drawing Diagram and Label

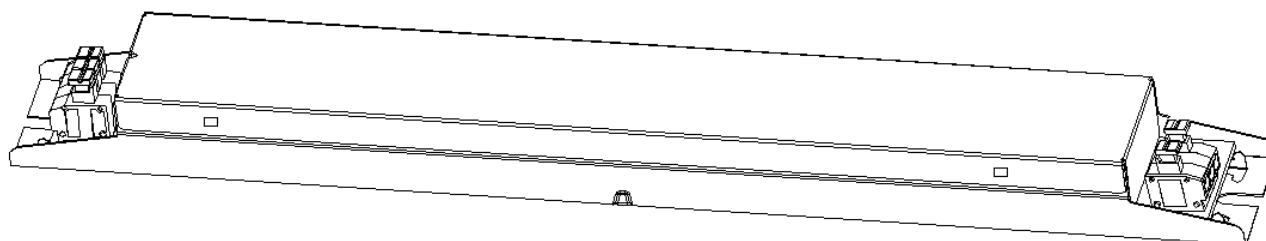
13.1 Dimension



Unit: mm

Tolerance: ± 1.0 mm

13.2 Drawing Diagram



13.3 Label

1 2 3 4 5 6 7

Pin 1, 2, 3, 4, 5, 6, 7

no marks and used

Select

Constant current LED Power Supply

I _{out} select	I _{out} (mA)	P _{out} (W)	U _{out} (V)	U _N /I _N	I _c (°C)	I _N (A)	λ	I _a (°C)
open	1050	54	27-54	220-240V	75	0.30	0.96	-20...50
5-6	925	49		0/50/60Hz		0.27	0.98	
5-7	800	41				0.24	0.97	

Connect PE to case or PIN 4

Weld Preparation

Fusion

RT -150

110

CE

SELV-equivalent

EL LED + + 21

SEC - 22

LED - + 23

- 24

U-OUT=60V