

PCL Series		
1. General Information		
1.1 LED Driver identification	PCL35W-MC-Match-700	
1.2 LED control gear type	Buit in	
1.3 LED configuration	500mA— channel ; Terminals 5—7 600mA— channel; Terminals 5—6 700mA — channel ;Default ,Terminals open	
1.4 Type of LED's	500mA—600mA—700mA 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	220240 V <sub>AC</sub>	
2.2 Nominal frequency	50/60 Hz	
2.3 Min. AC voltage for starting	198 V <sub>AC</sub> start-up with operating temperature	
2.4 AC operation on	198264 V <sub>AC</sub>	
2.5 Min. DC voltage for starting	176V <sub>DC</sub>	
2.6 DC operation on	176276 V <sub>DC</sub>	
2.7 Surge current	1	
2.8 Rated input power	≤46 W, @220 – 240 V <sub>AC</sub>	
2.9 Input current	<0.2 A, @220 – 240 V <sub>AC</sub>	
2.10 Power factor	$>0.95$ , @ (Full load , $220 - 240 V_{AC}$ )	
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	1	
2.15 Leakage current	1	
2.16 Number of mains fuses	1	
3. Output (Mains) Specifications		
3.1 Number of channels	1	
3.2 Rated output power	13.5 W35 W	
3.3 Min. output voltage	27 V <sub>DC</sub>	
3.4 Max. output voltage	54 V <sub>DC</sub>	
3.5 Max. declared output voltage	$60V_{DC}$ (No load protection put output down to roughly2 V)	
3.6 Average nominal output current	500mA——600mA——700mA	

±10 %

/

Mar. 25, 2016

3.8 Dimming

3.7 Output current tolerance (max)



3.9 Way of dimming	1
3.10 Dimming range	1
3.11 Open circuit proof	1
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	1
3.16 Type of output	Constant Current
3.17 Overvoltage output protection	1
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 ℃
4.2 Max. allowed ambient Temp.	+50 ℃
4.3 Allowed operating humidity range	5 %90 %
4.4 Max. allowed T <sub>C</sub> Temp.	75 ℃
4.5 Over temperature protection	The unit is protected against temporary
	overheating by automatic reduction of the output
	power.If tc exceed 85°C approx. the output current,
	duced to the lowest nominal value (500 mA);
4.6 <b>life time</b>	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
5. Immunity	
5.1 Immunity against static discharge	IEC 61547
5.2 Immunity against radio frequency electric and	IEC 61547
Magnetic fields	120 01041
5.3 Immunity against power frequency electric and	IEC 61547
magnetic fields	120 01047
5.4 Immunity against transient voltage fluctuation	IEC 61547
5.5 Immunity against transient voltage inditidation	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 ups (AC)	IEC 61547
5.9 Magnetic shielding	100 01047
J. / Magnetic siliciding	

Mar. 25, 2016 PCL35W-MC-Match-700



# **6. RFI Requirements**6.1 Disturbance voltages at mains terminals according

to luminaries of class II (or I)

6.2 Radiated disturbance voltages EN55015

EN 55015

#### 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<sup>2</sup> massive leads

8.6 Max. allowed cable capacitance
8.7 Max. allowed cable length
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 distance9.5 Mounting screwsL267 mmMax. M4

9.6 Ground connection via

9.7 Terminal covers

9.8 Class of protection

9.9 Labelling

9.10 Barcode identification

Yes

IP20

/

#### 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 materials10.5 After end of life to be treated as/



### 11. Approvals

11.1 Approval according to CE、CB、SAA、ROHS

11.2 EMC approval according to EN 55015

#### 12. Packaging and Transport

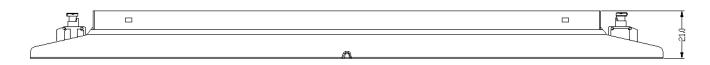
12.1 Immunity against vibration and shock /

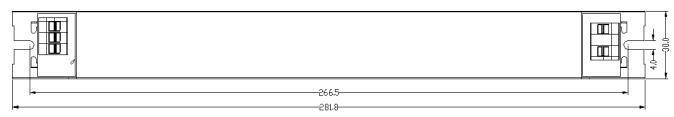
12.2 Weight (g)

12.3 Packing unit 30 pcs/carton

#### 13. Dimension, Drawing Diagram and Label

#### 13.1 Dimension

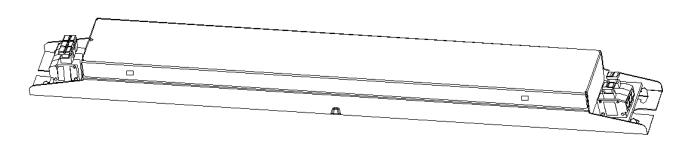




Unit: mm

Tolerance: ±1.0mm

#### 13.2 Drawing Diagram



#### 13.3 Marking

