



1 Item No. : (Model No.):

Item No. : (Model No.):	Item No. : (Model No.):
3414779 (TC-YCL15-1201500)	3414780 (TC-YCL15-2400750)
3414781 (TC-YCL24-1202000)	3414782 (TC-YCL24-2401000)
3414783 (TC-YCL40-1203330)	3414784 (TC-YCL40-2401660)
3414785 (TC-YCL60-1205000)	3414786 (TC-YCL60-2402500)
3414787 (TC-YCL100-1208330)	3414788 (TC-YCL100-2404160)
3414789 (TC-YCL150-12012500)	3414790 (TC-YCL150-24006250)
3414791 (TC-YCL150-12016600)	3414792 (TC-YCL150-24008330)

2 Operating Instructions for download

Use the link www.conrad.com/downloads (alternatively scan the QR code) to download the complete operating instructions (or new/current versions if available). Follow the instructions on the web page.

3 Intended use

The product is intended for indoor use only. Do not use it outdoors.

If you use the product for purposes other than those described, the product may be damaged.

Improper use can result in short circuits, fires, electric shocks or other hazards.

The product complies with the statutory national and European requirements.

For safety and approval purposes, you must not rebuild and/or modify the product.

Read the operating instructions carefully and store them in a safe place. Make this product available to third parties only together with the operating instructions.

All company names and product names are trademarks of their respective owners. All rights reserved.

USB4®, USB Type-C® and USB-C® are registered trademarks of USB Implementers Forum.



! WARNING

Risk of electric shock

Always disconnect the power supply from the source before performing any installation, maintenance, or repair work. If you are not a professional, do not do it yourself, have it performed by a specialist.

4 Description of symbols



The symbol warns of hazards that can lead to personal injury.



Independent light control gear. Can be installed separately without an additional enclosure.



Lamp control gear protection against overheating to temperatures ≥ 110 °C.



Safety isolating control gear with short circuit protection.



Protection class 2 (double or reinforced insulation, protective insulation).

5 Safety instructions



Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling, we assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/guarantee.

5.1 General

- The product is not a toy. Keep it out of the reach of children and pets.
- Do not leave packaging material lying around carelessly. This may become dangerous playing material for children.
- If you have questions which remain unanswered by this information product, contact our technical support service or other technical personnel.
- Maintenance, modifications and repairs must only be completed by a technician or an authorised repair centre.

5.2 Handling

- Handle the product carefully. Jolts, impacts or a fall even from a low height can damage the product.

5.3 Operating environment

- Do not place the product under any mechanical stress.
- Protect the appliance from extreme temperatures, strong jolts, flammable gases, steam and solvents.
- Protect the product from direct sunlight.
- Do not switch the product on after it has been taken from a cold to a warm environment. The condensation that forms might destroy the product. Allow the product to reach room temperature before you use it.

5.4 Operation

- Consult an expert when in doubt about the operation, safety or connection of the product.
- If it is no longer possible to operate the product safely, take it out of operation and protect it from any accidental use. DO NOT attempt to repair the product yourself. Safe operation can no longer be guaranteed if the product:
 - is visibly damaged,
 - is no longer working properly,
 - has been stored for extended periods in poor ambient conditions or
 - has been subjected to any serious transport-related stresses.

5.5 Electrical installation

WARNING! Safety hazard!

The product should only be installed by people with relevant electrical knowledge and experience! *)

If it is not installed properly, you risk:

- your own life
- the life of user of the electrical device
- severe damage to property, e.g., by fire
- personal liability for personal injury and material damage

Always consult an electrician!

*) Technical knowledge required to perform the installation:

For the installation, the following specialist knowledge is required in particular:

- The "Five safety rules": Disconnect from the mains; protect against accidental switch-on; ensure there is no voltage; earth and short-circuit; cover or protect adjacent live parts
- Use of suitable tools, measuring devices and personal protective equipment, where necessary
- Analysis of measurement results
- Use of electrical installation materials to meet the requirements for disconnection
- IP protection ratings
- Installation of electrical installation materials
- Type of power supply (TN system, IT system, TT system) and the corresponding connection criteria (classic earthing, protective earthing, necessary additional measures etc.)

If you are not a professional, do not do it yourself, have it performed by a specialist.

5.6 Product



For safe installation and operation, always refer to the product's rating label. It contains critical electrical characteristics and safety certifications, including input voltage, current, and output power.

6 Cleaning and care

Important:

- Do not use aggressive cleaning agents, rubbing alcohol or other chemical solutions. They damage the housing and can cause the product to malfunction.
- Do not immerse the product in water.

1. Disconnect the product from the power supply.
2. Clean the product with a dry, fibre-free cloth.

7 Disposal



This symbol must appear on any electrical and electronic equipment placed on the EU market. This symbol indicates that this device should not be disposed of as unsorted municipal waste at the end of its service life.

Owners of WEEE (Waste from Electrical and Electronic Equipment) shall dispose of it separately from unsorted municipal waste. Spent batteries and accumulators, which are not enclosed by the WEEE, as well as lamps that can be removed from the WEEE in a non-destructive manner, must be removed by end users from the WEEE in a non-destructive manner before it is handed over to a collection point.

Distributors of electrical and electronic equipment are legally obliged to provide free take-back of waste. Conrad provides the following return options **free of charge** (more details on our website):

- in our Conrad offices
- at the Conrad collection points
- at the collection points of public waste management authorities or the collection points set up by manufacturers or distributors within the meaning of the ElektroG

End users are responsible for deleting personal data from the WEEE to be disposed of.

It should be noted that different obligations about the return or recycling of WEEE may apply in countries outside of Germany.

8 Technical data

Note:

Product data is available online, see: [Operating Instructions for download \[► 1\]](#).

This is a publication by Conrad Electronic SE, Klaus-Conrad-Str. 1, D-92240 Hirschau (www.conrad.com).

All rights including translation reserved. Reproduction by any method (e.g. photocopying, microfilming or the capture in electronic data processing systems) requires prior written approval from the editor. Reprinting, also in part, is prohibited. This publication reflects the technical status at the time of printing.

Copyright by Conrad Electronic SE.

*_V2_0126_dh_mh_en 27021600040671883 I4/O2 en

Item No.:	3414779	3414780	3414781	3414782	3414783	3414784	3414785
Customer model no	TC-YCL15-1201500	TC-YCL15-2400750	TC-YCL24-1202000	TC-YCL24-2401000	TC-YCL40-1203330	TC-YCL40-2401660	TC-YCL60-1205000
Manufacturer color	White	White	White	White	White	White	White
Input voltage:	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz
Input Current (max.):	0.3A Max	0.3A Max	0.2A Max	0.2A Max	0.3A Max	0.3A Max	0.4A Max
Output voltage	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC
Output current	1.5A	0.75A	2A	1A	3.33A	1.66A	5A
Output power (max.)	18W	18W	24W	24W	40W	40W	60W
No-Load Power (Pho)	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W
Voltage tolerance	± 5 %	± 5 %	± 5 %	± 5 %	± 5 %	± 5 %	± 5 %
Output voltage ripple	< 500 mV p-p	< 500 mV p-p	< 500 mV p-p	< 500 mV p-p	< 500 mV p-p	< 500 mV p-p	< 500 mV p-p
Total harmonic distortion	<20%	<20%	<20%	<20%	<20%	<20%	<20%
Efficiency (at full load)	74.40%	77.04%	80.00%	80.00%	83.62%	83.62%	85.75%
Power factor (PF)	≥ 0.7 @Full Load 220-240VAC	≥ 0.7 @Full Load 220-240VAC	≥ 0.9 @Full Load 220-240VAC	≥ 0.9 @Full Load 220-240VAC	≥ 0.9 @Full Load 220-240VAC	≥ 0.9 @Full Load 220-240VAC	≥ 0.9 @Full Load 220-240VAC
Primary / secondary sides	Cables included	Cables included	Cables included	Cables included	Cables included	Cables included	Cables included
tc / ta	85°C / 45°C	85°C / 45°C	85°C / 45°C	85°C / 45°C	85°C / 45°C	85°C / 45°C	85°C / 45°C
Protection mechanisms	short circuit, overload, overvoltage	short circuit, overload, overvoltage	short circuit, overload, overvoltage	short circuit, overload, overvoltage	short circuit, overload, overvoltage	short circuit, overload, overvoltage	short circuit, overload, overvoltage
Cooling	natural convection	natural convection	natural convection	natural convection	natural convection	natural convection	natural convection
Rated lifetime	>30000hours@ta 4 °C	>30000hours@ta 4 °C	>30000hours@ta 4 °C	>30000hours@ta 4 °C	>30000hours@ta 4 °C	>30000hours@ta 4 °C	>30000hours@ta 4 °C
Ingress protection	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Protection class	II	II	II	II	II	II	II
Dimmable	NO	NO	NO	NO	NO	NO	NO
For use with light sources	LED	LED	LED	LED	LED	LED	LED
Operating conditions	-20 °C to +45 °C	-20 °C to +45 °C	-20 °C to +45 °C	-20 °C to +45 °C	-20 °C to +45 °C	-20 °C to +45 °C	-20 °C to +45 °C
Storage conditions	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Dimensions (L x W x H)	130 x 25 x 21mm	130 x 25 x 21mm	118 x 35 x 26mm	118 x 35 x 26mm	148 x 40 x 30mm	148 x 40 x 30mm	163 x 43 x 33mm
Weight	approx. 112g	approx. 117g	approx. 178g	approx. 181g	approx. 284g	approx. 290g	approx. 380g

Item No.:	3414786	3414787	3414788	3414789	3414790	3414791	3414792
Customer model no	TC-YCL60-2402500	TC-YCL100-1208330	TC-YCL100-2404160	TC-YCL150-12012500	TC-YCL150-24006250	TC-YCL150-12016600	TC-YCL150-24008330
Manufacturer color	White	White	White	White	White	White	White
Input voltage:	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz	220-240V 50/60 Hz
Input Current (max.):	0.4A Max	0.7A Max	0.7A Max	1.3A Max	1.3A Max	1.3A Max	1.3A Max
Output voltage	24VDC	12VDC	24VDC	12VDC	24VDC	12VDC	24VDC
Output current	2.5A	8.33A	4.16A	12.5A	6.25A	16.6A	8.33A
Output power (max.)	60W	100W	100W	150W	150W	200W	200W
No-Load Power (Pno)	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W	< 0.5 W
Voltage tolerance	± 5 %	± 5 %	± 5 %	± 5 %	± 5 %	± 5 %	± 5 %
Output voltage ripple	< 500 mV p-p	< 500 mV p-p	< 500 mV p-p	< 500 mV p-p	< 500 mV p-p	< 500 mV p-p	< 500 mV p-p
Total harmonic distortion	<20%	<20%	<20%	<20%	<20%	<20%	<20%
Efficiency (at full load)	85.75%	87.70%	87.70%	88.79%	88.79%	89.39%	89.38%
Power factor (PF)	≥ 0.9 @Full Load 220-240VAC	≥ 0.9 @Full Load 220-240VAC	≥ 0.9 @Full Load 220-240VAC	≥ 0.9 @Full Load 220-240VAC	≥ 0.9 @Full Load 220-240VAC	≥ 0.9 @Full Load 220-240VAC	≥ 0.9 @Full Load 220-240VAC
Primary / secondary sides	Cables included	Cables included	Cables included	Cables included	Cables included	Cables included	Cables included
tc / ta	85°C / 45°C	85°C / 45°C	85°C / 45°C	85°C / 40°C	85°C / 40°C	85°C / 40°C	85°C / 40°C
Protection mechanisms	short circuit, overload, over-voltage	short circuit, overload, over-voltage	short circuit, overload, over-voltage	short circuit, overload, over-voltage	short circuit, overload, over-voltage	short circuit, overload, over-voltage	short circuit, overload, over-voltage
Cooling	natural convection	natural convection	natural convection	natural convection	natural convection	natural convection	natural convection
Rated lifetime	>30000hours@ta 4 °C	>30000hours@ta 4 °C	>30000hours@ta 4 °C	>30000hours@ta 4 °C	>30000hours@ta 4 °C	>30000hours@ta 4 °C	>30000hours@ta 4 °C
Ingress protection	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Protection class	II	II	II	II	II	II	II
Dimmable	NO	NO	NO	NO	NO	NO	NO
For use with light sources	LED	LED	LED	LED	LED	LED	LED
Operating conditions	-20 °C to +45 °C	-20 °C to +45 °C	-20 °C to +45 °C	-20 °C to +45 °C	-20 °C to +45 °C	-20 °C to +45 °C	-20 °C to +45 °C
Storage conditions	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C	-40 °C to +85 °C
Dimensions (L x W x H)	163 x 43 x 33mm	190 x 52 x 37mm	190 x 52 x 37mm	191 x 68 x 37mm	191 x 68 x 37mm	191 x 68 x 37mm	191 x 68 x 37mm
Weight	approx. 380g	approx. 610g	approx. 610g	approx. 820g	approx. 820g	approx. 820g	approx. 820g