

Aqualux TRIAC Dimmable IP67 Power Supplies

Product description here



Features

- Wide input voltage 100-277VAC
- Complete isolation design for safer operation
- Excellent dimming effect and strong compatability
- IP67 suitable for indoor & outdoor use - indoor DO NOT COVER
- Short circuit, over-current & over-voltage protection
- CE, TUV, ETL, UL passed
- Active power correction with high power factor
- 5-year warranty

Warning: Suitable for direct drive LEDs. If there is a circuit drive LED or load with capacitance inside the LED then this dimming power supply may not work

Part Numbers

AQD-WPS-030-24-T
AQD-WPS-100-24-T
AQD-WPS-240-24-T

Technical Parameters

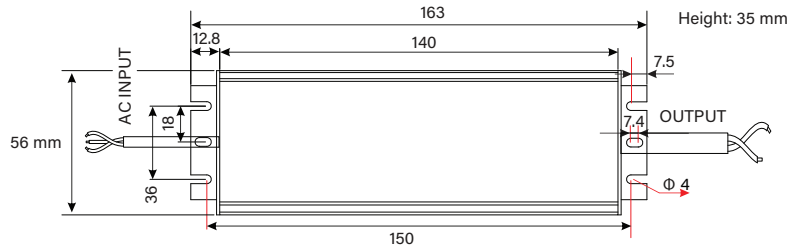
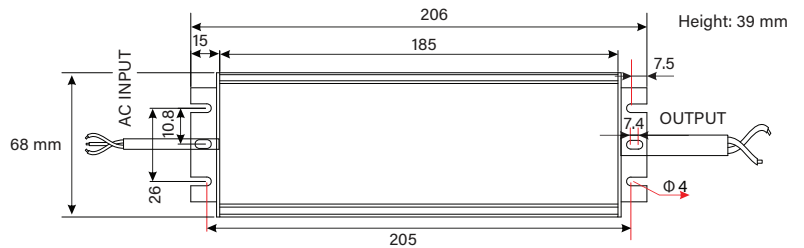
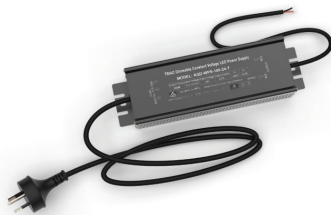
Model	AQD-WPS-030-24-T	AQD-WPS-100-24-T	AQD-WPS-240-24-T
Voltage	24V	24V	24V
Current	1.25A (Max)	4.17A (Max)	10A (Max)
Power	30W	100W	240W
Ripple & Noise (max)	<250mVp-p	<250mVp-p	<250mVp-p
Output	Efficiency Full Load 110VAC	88%	91%
	Efficiency Full Load 230VAC	89%	93%
	Start 230VAC (milliseconds)	500	500
	Rise Time 230VAC (milliseconds)	100	100
	Hold Time 230VAC (milliseconds)	10	10

Model	AQD-WPS-030-24-T	AQD-WPS-100-24-T	AQD-WPS-240-24-T	
Input	Input Voltage	100-277VAC	100-277VAC	100-277VAC
	Frequency	50 / 60Hz	50 / 60Hz	50 / 60Hz
	Power Factor	PF>0.95 @ 230VAC	PF>0.95 @ 230VAC	PF>0.95 @ 230VAC
	THD	<17% @ 230VAC	<17% @ 230VAC	<17% @ 230VAC
	Standby Power	<1w	<5w	<2w
	Current	0.3A max @ 100VAC	1A max @ 100VAC	2.4A max @ 100VAC
	Inrush Current	Cold start 75A(twidth=350us measured at 50% Ipeak) @ 230VAC	Cold start 75A(twidth=350us measured at 50% Ipeak) @ 230VAC	Cold start 75A(twidth=350us measured at 50% Ipeak) @ 230VAC
Physical	Dimensions	163 x 56 x 35mm	226 x 68 x 39mm	246 x 68 x 39mm
	Weight	600g	1200g	1500g
Protection	Short Circuit	Close output, recovers after fault condition is removed		
	Over Voltage	Hiccup, recovers after fault condition is removed		
	Over Load	Hiccup, recovers after fault condition is removed		

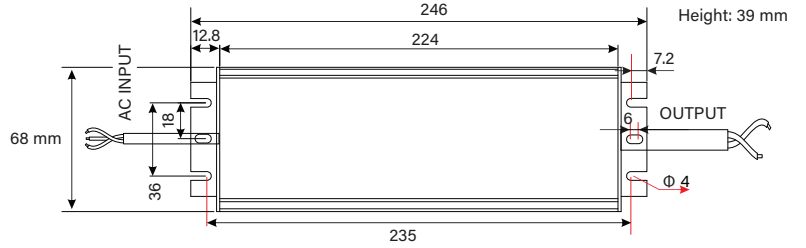
Product Notes

1. Unless otherwise specified, all specifications and parameters shall be measured at the input of 230VAC, rated load and ambient temperature of 25°C.
2. Ripple and noise measurement method: A12" twisted-pair line with 0.1uF and 47uF capacitors in parallel should be used for measurement under 20MHZ bandwidth.
3. The start time is measured under the starting of the cold machine. Frequent switching on and off may increase the start time.
4. The driver is regarded as a component used in combination with the terminal equipment. Since the EMC is affected by the whole device, the manufacturer of the terminal equipment needs to reconfirm the EMC of the whole device.

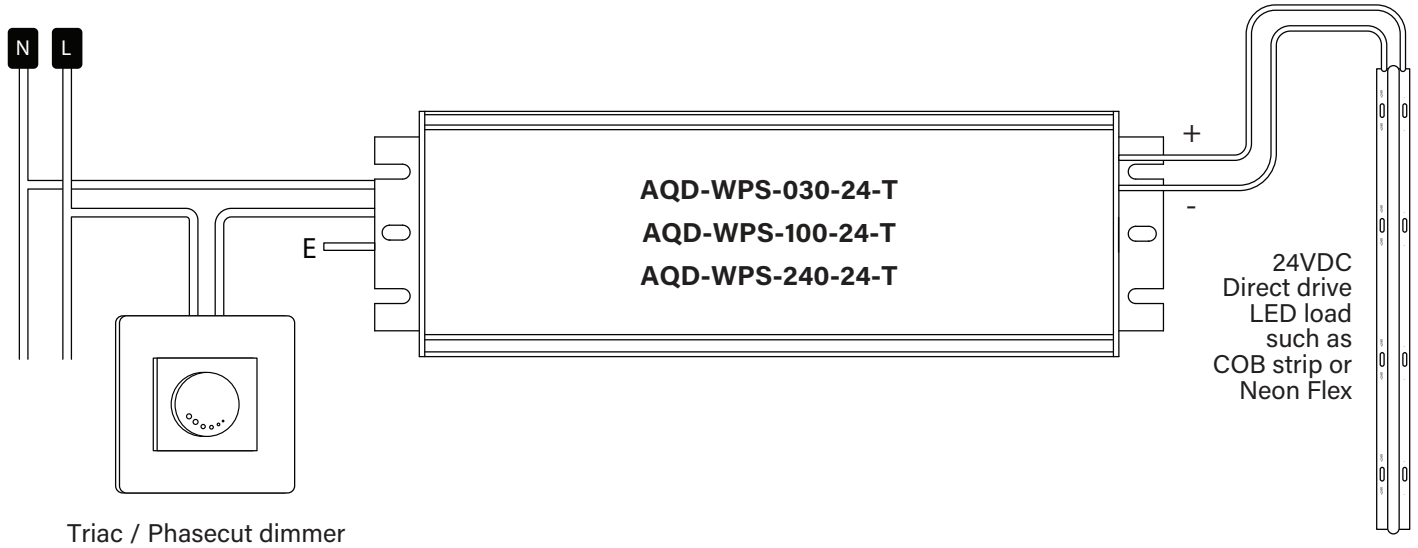
Product Dimensions

AQD-WPS-030-24-T

AQD-WPS-100-24-T


AQD-WPS-240-24-T






COB Strip Power Supplies



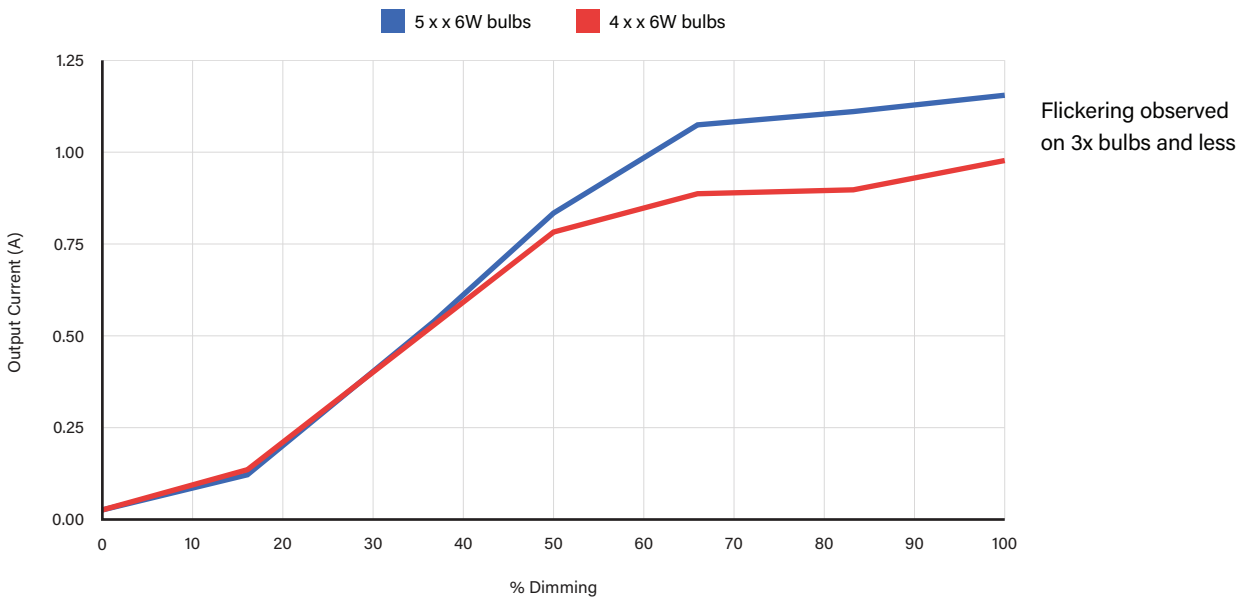
Dimming Information

AQD-WPS-030-24-T

Aqualux has tested several commonly available dimmers with our TRIAC LED drivers and found the Clipsal 32E450LM to perform the best with our AQD-WPS-030-24-T. Other dimmers may or may not work as desired.




Dimmer	Minimum Output Current	Maximum Output Current	Shimmer	Flicker
 Clipsal 32E450UDM	0.282A	1.216A	No	With < 50% load
 Clipsal 32E450LM	0.168A	1.216A	No	None
 Dignet MEDM	0.007A	1.216A	No	With < 75% load

Dimming Performance of AQD-WPS-030-24-T, using Dignet MEDM & AGL-560-30E60

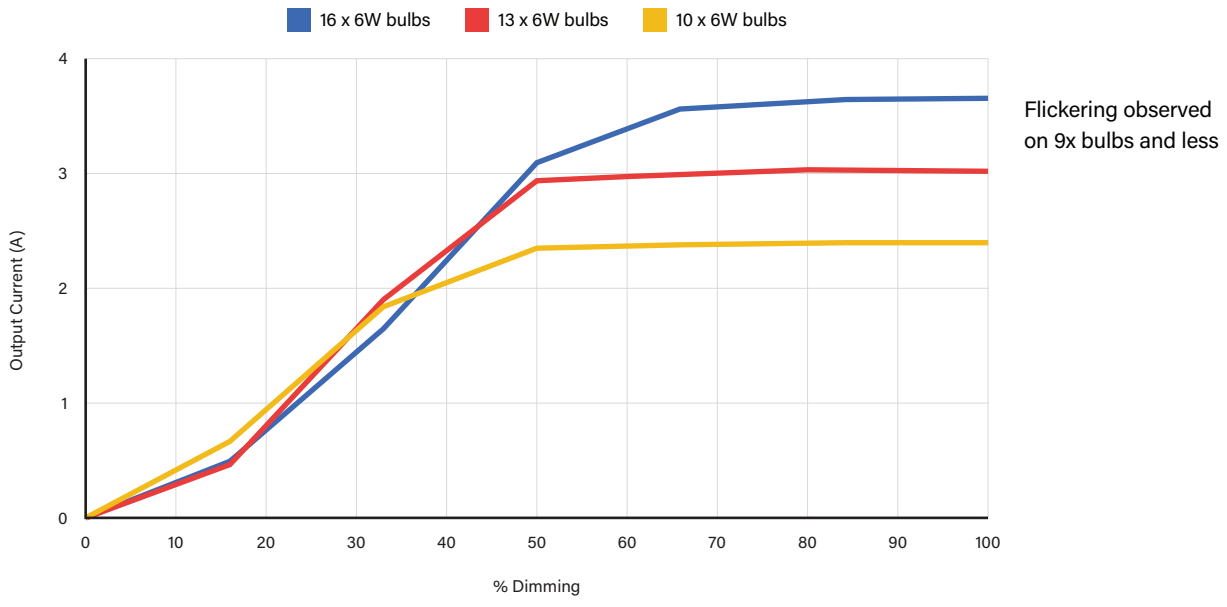


AQD-WPS-100-24-T

Aqualux has tested several commonly available dimmers with our TRIAC LED drivers and found the Clipsal 32E450LM to perform the best with our AQD-WPS-100-24-T. Other dimmers may or may not work as desired.




Dimmer	Minimum Output Current	Maximum Output Current	Shimmer	Flicker
 Clipsal 32E450UDM	0.861A	4.028A	None	With < 65% load
 Clipsal 32E450LM	0.695A	4.016A	None	None
 Dignet MEDM	0.054A	3.848A	None	With < 70% load

Dimming Performance of AQD-WPS-100-24-T, using Dignet MEDM & AGL-560-30E60

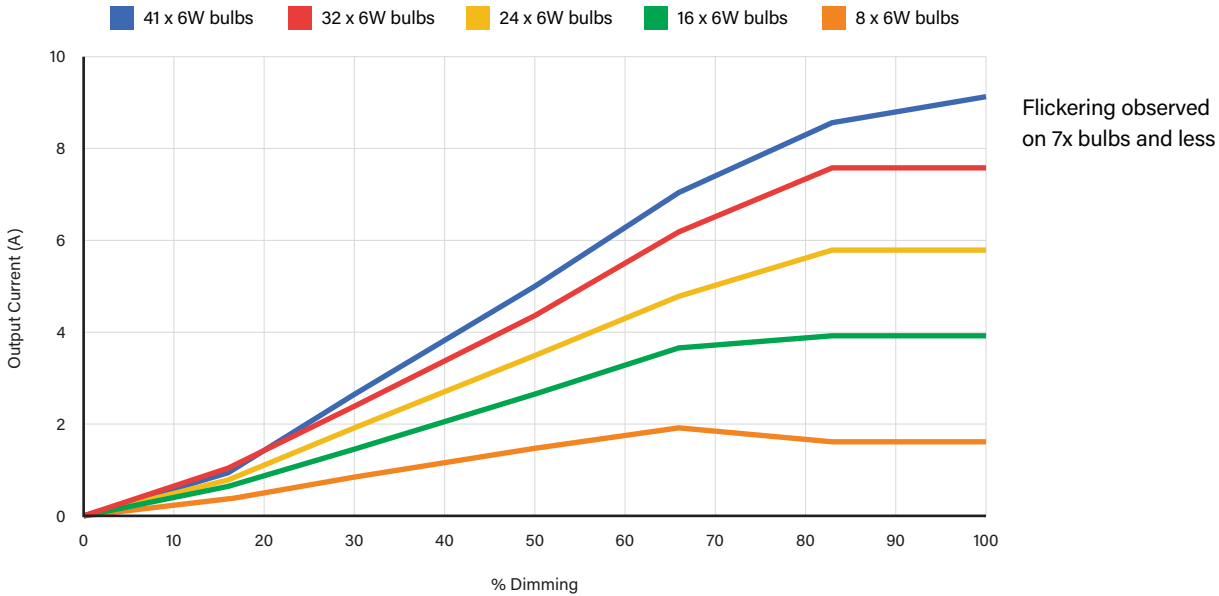


AQD-WPS-240-24-T

Aqualux has tested several commonly available dimmers with our TRIAC LED drivers and found the below dimmers perform best with our AQD-WPS-240-24-T. Other dimmers may or may not work as desired.

Dimmer	Minimum Output Current	Maximum Output Current	Shimmer	Flicker
 Clipsal 32E450UDM	1.738A	8.895A	None	None
 Clipsal 32E450LM	0.879A	8.175A	None	None
 Dignet MEDM	0A	9.929A	None	None

Dimming Performance of AQD-WPS-240-24-T, using Dignet MEDM & AGL-560-30E60



Warranty

Telectran / Aqualux warrants this product for a period of 5 years from the date of purchase. These goods come with guarantees that cannot be excluded under the Australian and New Zealand Consumer Laws. You are entitled to a replacement or a refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Customer Service

For all Customer Service and Technical Support please call Monday to Friday during business hours.

Aqualux Lighting / Aquatran Power
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