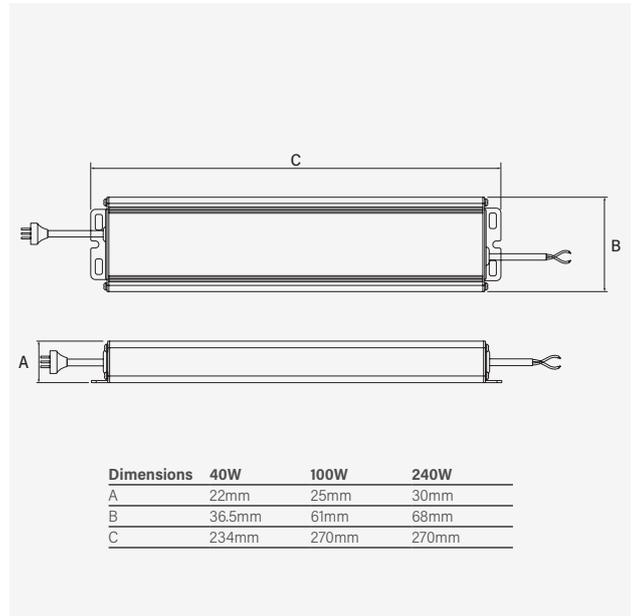


AQD Power Supplies

AQD Non-Dimmable Drivers



AQD24-040 / AQD24-100 / AQD24-240



Features

- Wide input voltage with active PFC, rated for full load output
- Ultra-thin design, save on installation space
- Optimised for a harsh working environment
- Isolated design, safe and reliable
- Protections: Overload, Over temperature, Short circuit, Surge.

Full RCM Compliance

- Full load efficiency up to **87% (AQD24-040), 88% (AQD24-100), 93.5% (AQD24-240)**
- IP67 Rated
- 5 year warranty

Output	40W	100W	240W
Voltage	24V	24V	24V
Current	1.67A (Max)	4.17A (Max)	10A (Max)
Power	40W	100W	240W
Ripple Voltage	<120mVp-p	<120mVp-p	<240mVp-p
Channel	1	1	1
Voltage Tolerance	±2%	±2%	±5%

Input	40W	100W	240W
Efficiency	87% @ 240VAC	88% @ 240VAC	93.5% @ 230VAC
Voltage	100VAC-240VAC	100VAC-240VAC	100VAC-240VAC
Frequency	50/60Hz	47~63Hz	47~63Hz
Power Factor	>0.95	>0.95	>0.95
THD	<10% @ 230VAC	<10% @ 230VAC	<15% @ 230VAC
Current	0.6Amax @ 240VAC	1.3Amax @ 240VAC	3.2Amax @ 230VAC
Inrush Current	Cold start <50A @ 240VAC	Cold start <50A @ 240VAC	Cold start <50A @ 230VAC

Environment

	40W	100W	240W
Working Temperature	-25°C ~ +50°C	-25°C ~ +60°C	-25°C ~ +50°C
Storage Temperature, Humidity	-40°C ~ 85°C 20-90% RH	-40°C ~ 85°C 20-90% RH	-40°C ~ 85°C 20-90% RH
Tc	90°	90°	90°
Housing Material	Metal	Metal	Metal
IP Rating	IP67	IP67	IP67
Lifetime	50,000h @ tc:85°C	50,000h @ tc:85°C	50,000h @ tc:90°C
Switch Cycle	>25,000 times	>100,000 times	>25,000 times

Physical

	40W	100W	240W
Dimensions	234 x 36.5 x 22mm	270 x 61 x 25mm	270 x 68 x 30mm
Net weight	340g±5%	820g±5%	1055g±5%
Carton Qty	50pcs	20pcs	20pcs
Carton	17.5kg±5%	17kg±5%	26.1kg±5%
Carton Size	500 x 250 x 140mm	325 x 315 x 195mm	355 x 290 x 180mm

Protection

Short Circuit	40W	Auto recovery when failure is removed
	100W	Auto recovery when failure is removed
	240W	Output shutdown - Power cycle to recover
Over Voltage	40W	<36VDC Output shutdown - Power cycle to recover
	100W	<36VDC Output shutdown - Power cycle to recover
	240W	<28VDC Output shutdown - Power cycle to recover
Over Current	40W	<2.5A Auto recovery when failure is removed
	100W	<5.5A Auto recovery when failure is removed
	240W	<13A Auto recovery when failure is removed

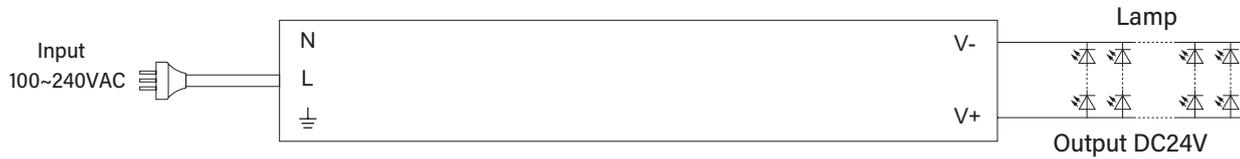
Safety & EMC

Surge	L-N:2kV / L,N-FG:4kV
Breakdown Voltage	I/P-O/P:3000VAC/5mA
	I/P-FG:1500VAC/5mA
	O/P-FG:500VAC/5mA
Safety Standards	IEC/EN61347-1,IEC/EN61347-2-13,GB19510.1,GB19510.14
EMC Emission	EN50515,EN61000-3-2 Class C,IEC61000-3-3
EMC Immunity	EN61000-4-2,3,4,5,6,8,11 EN61547,GB17625.1

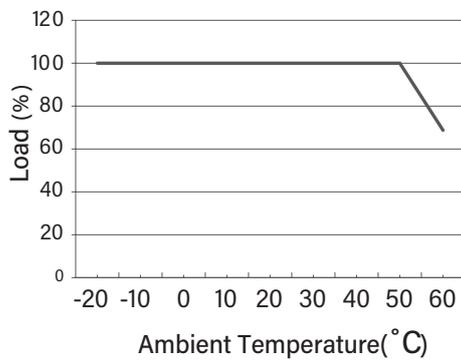
Visit www.aqualux.com.au for: Full product details and available options.
Order code configuration & customised datasheets. Voltage drop calculator & LED technical information.

+61-2-9454-7900
sales@aqualux.com.au

Wiring Diagram



Derating Curve



Cautions

1. If the input plug is removed this product must be installed by a licensed electrician.
2. Check luminaire compatibility prior to installation. The output voltage and current of the power supply must meet the specifications of your lamps and total load of the circuit.
3. This product is IP67. The 6 indicates "complete protection against dust" as well as "protection against contact with objects greater than 1mm in diameter, such as a wire or a small tool". The 7 indicates the power supply is "protected against short periods of immersion in water while under pressure between 15cm and 1m for no longer than 30 minutes"
4. The driver must be installed in a well ventilated space and **must not be covered**.
5. Please ensure you have used the correct conductor size for your lamps taking into account distance/load and voltage drop.
6. Make sure all connections are correct and secure before powering up.
7. **Do not hot plug LED luminaires.** Ensure power supply is OFF when connecting luminaires.
8. If for any reason the unit stops, do not attempt to service it. Contact a licensed electrician.
9. The output or input cable cannot be replaced. If they are damaged the power supply must be scrapped.

