



Aqualtran Product Range

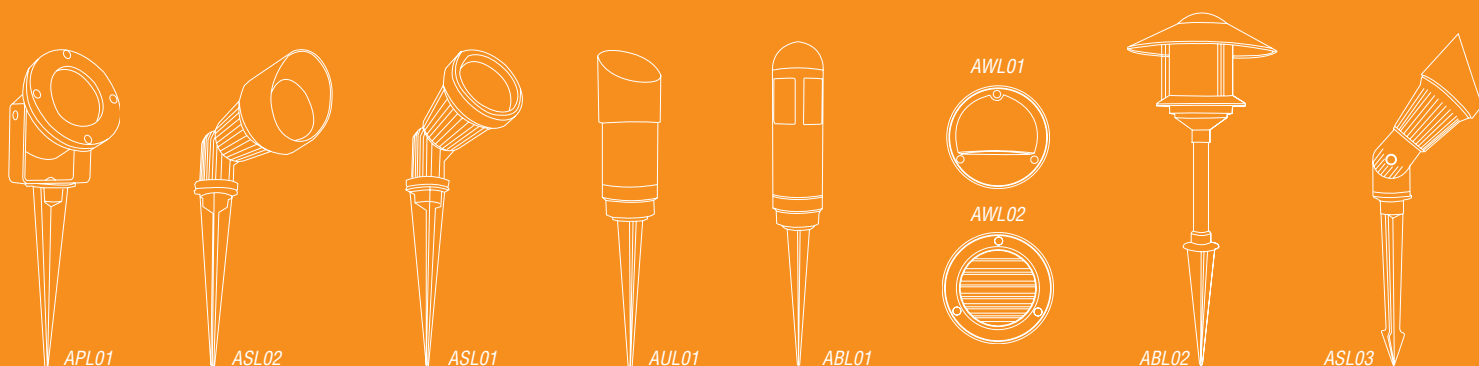
AQE Enclosed - AQX Encapsulated - Lights, Timers & Accessories



Aquatran Outdoor Lighting Fixtures

Ferguson introduced its Aquatran Lighting range in 2002 and is continuing to expand the number of available models. Aquatran Lights are rugged units, constructed from cast aluminium and built to last. Most models are IP44 rated and select models are rated to IP68 for full immersion in your pond or outdoor water feature. Power your lighting with Aquatran AQX & AQE Power Supplies for optimal outdoor performance that keeps on lighting up your garden.

- Cast aluminium or brass construction, for rugged durability and corrosion resistance
- Weatherproof seals for reliable performance in every environment
- IP Rated for assured protection from the elements
- Expanding range of models for your complete landscape lighting needs



Model	Type	Description	IP	Globe	Finish
APL01	Pondlight	Inground & pond light. Includes bracket and spike for mounting. Can be buried in ground as uplight.	IP68	MR16 Halogen, up to 20W.	Black
AUL01	Uplight	Uplight for highlighting trees, plants and other features. Includes bracket and spike for mounting.	IP44	MR16 Halogen, up to 50W.	Black
ASL01	Spotlight	Fully adjustable spotlight. Includes bracket and spike for mounting.	IP44	MR16 Halogen, up to 50W.	Black
ASL02	Hooded spotlight	Fully adjustable hooded spotlight. Includes bracket and spike for mounting.	IP44	MR16 Halogen, up to 50W.	Black
ABL02	Hooded Bollard	Hooded bollard for lighting walkways and driveways. Includes bracket and spike for mounting.	IP44	BI Pin, up to 20W.	Black
ABL01	Bollard	Straight bollard for lighting footpaths and garden edges.	IP44	BI Pin, up to 20W.	Black
ASL03	Brass Spotlight	Larger, brushed brass spot light for illuminating features and trees.	IP44	MR16 Halogen, up to 50W.	Brass
AWL01	Wall Light	Mounted, downward facing wall light with glass cover.	IP44	BI Pin, up to 20W.	Black
AWL02	Slotted Wall Light	Wall mounted light with slotted face. Includes mounting plate.	IP44	BI Pin, up to 20W.	Black

Accessories

Order Aquatran accessories such as globes and cable glands with your Aquatran Power or Lighting products and save!

Code	Accessory
AGL-BIPIN-20W	20W Halogen 12V BI Pin Globe
AGL-MR16-50W	50W Halogen 12V MR16 Globe
AQA-GLA-10MM	Aquatran Cable Gland, 5-10mm Cable OD

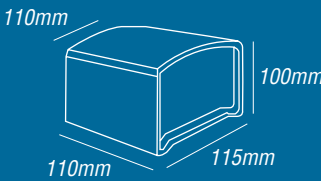
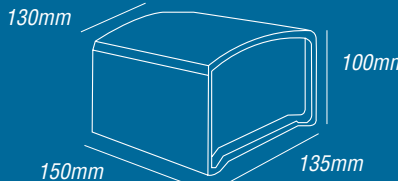
Aquatran AQX & AQE Outdoor Power Supplies

Aquatran is the Ferguson range of outdoor power supplies that are IP rated to withstand the harsh Australian elements. Available in two versions and a range of different power ratings, the AQX is epoxy encapsulated, providing full IP67 protection, while the AQE is encased in a polycarbonate enclosure, providing IP66 protection against dust and ingress.

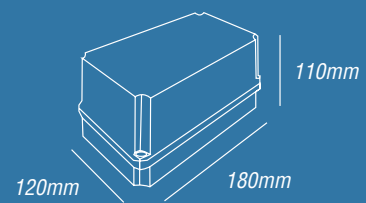
Utilise Aquatran AQX & AQE Power Supplies in applications such as outdoor lighting, pond pumps, gate & access control, and remote telemetry. Take a look at the standard range, or for your specific requirements and large volume projects, call us today for a custom quote.

- Designed and approved to AS/NZ-S3108, Certificate Number CS7894N.
- All models have built in auto-resetting thermal protection.
- AQX complete with 1.8 meter flexlead and 700 mm low voltage cable.
- AQX with 20mm conduit adaptor for hard wiring to mains.

Aquatran AQX - Epoxy Encapsulated IP67 Rated

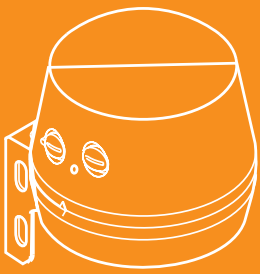
Product Code	Input	Output	VA	Dimensions	
AQX12-020	240VAC	12VAC	20	 <p>AQX 20VA - 150VA</p>	
AQX12-050	240VAC	12VAC	50		
AQX12-100	240VAC	12VAC	100		
AQX12-150	240VAC	12VAC	150		
AQX12-200	240VAC	12VAC	200		
AQX24-100	240VAC	24VAC	100		 <p>AQX 200VA - 300VA</p>
AQX24-200	240VAC	24VAC	200		
AQX12-250	240VAC	12VAC	250		
AQX12-300	240VAC	12VAC	300		
AQX24-300	240VAC	24VAC	300		

Aquatran AQE - Polycarbonate Enclosure IP66 Rated

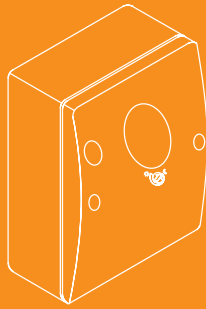
Product Code	Input	Output	VA	Dimensions
AQE12-050	240VAC	12VAC	50	 <p>AQE 50-300VA</p>
AQE12-100	240VAC	12VAC	100	
AQE12-150	240VAC	12VAC	150	
AQE12-200	240VAC	12VAC	200	
AQE12-300	240VAC	12VAC	300	
AQE24-100	240VAC	24VAC	100	
AQE24-200	240VAC	24VAC	200	
AQE24-300	240VAC	24VAC	300	
AQE32-150	240VAC	32VAC	150	

Aquatran Timers & Automatic Sensors

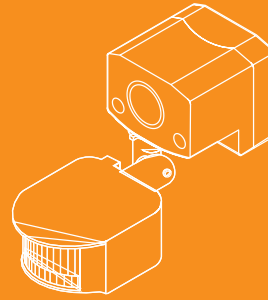
The Aquatran range of outdoor timers & automatic sensors are designed for use with the Aquatran range of power supplies. Each timer has a maximum load of 10A, making them ideal for operating a number of power supplies and lighting circuits from the one timer. Use the Aquatran Timers in a range of different situations, from simple dusk/dawn control to combined systems with integrated motion sensors.



AQT-001



AQT-002



AQT-003

Model	Type	Description	IP	Load	Voltage	Color
AQT-001	Dusk/Dawn + Timer	Pole or wall mounting with adjustable dusk/dawn setting and illumination timer.	IP54	10A Resistive	220-240V - 50Hz	Grey
AQT-002	Dusk/Dawn + Timer	Wall mounting in a stylish enclosure with adjustable dusk/dawn setting and illumination timer.	IP44	10A Resistive	220-240V - 50Hz	Grey
AQT-003	Motion Detector	Adjustable lux and sensitivity settings allow the AQT-003 to operate only after dark.	IP44	10A Resistive	220-240V - 50Hz	Black

Aquatran Low Voltage Cable

Aquatran 8mm² Low Voltage cable is the recommended cable for use with all Aquatran outdoor power supplies and lighting products. Available in 20M, 50M and 100M rolls, Aquatran 8mm² Low Voltage Cable is ideal for minimizing losses and voltage drops from your power supply to light source, resulting in a brighter output per light and greater overall efficiency, especially when using power supplies rated at 200VA and above.

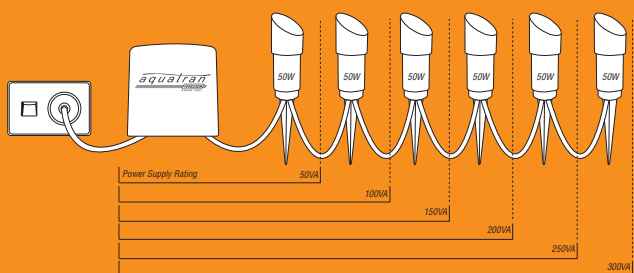
Performance Comparison					Efficiency Comparison		
Cable Type	Area mm ²	AWG	Voltage Drop / M ¹	Resistance / M	Efficiency over 10M ²	Energy Savings / Year ³	Cost Savings / Year ⁴
Aquatran 8mm ²	8	8	0.1003 V	0.004 Ω	87.41%	314.81 KW	\$33.05
Double Insulated 5mm ²	5	10	0.1713 V	0.008 Ω	79.26%	260.06 KW	\$27.30
"Extra Heavy Duty" 3.3mm ²	3.3	12	0.2243 V	0.011 Ω	72.44%	219 KW	\$22.99
"Standard Duty" 1.3mm ²	1.3	16	0.4803 V	0.027 Ω	45.39%	-	-

1. Voltage drop is calculated over 10M with 300VA AQE Power Supply at full load.
 2. Efficiency is measured as relative performance over 10M where 100% efficiency is equal to connection of full-load directly to AQE 300VA Power Supply.
 3. Annual energy saving is calculated as total KW saved in reduced losses as compared to "Standard Duty" 1.3mm² cable after running AQE 300VA at full load for 6 hours per day, 365 days a year.
 4. Annual cost saving based on 10.5c/KWh as per AGL pricing as at April 2004.
- Generally, to calculate voltage drop for any transformer, multiply the operational current by the resistance per metre of the cable you are using.
 Example: In an installation with 4 x 50W lamps, a 200VA unit will draw 16.6A, multiplied by x 0.004 when utilising Aquatran 8mm² Cable, gives a voltage drop of 0.066V / M.

Aquatran Low Voltage Cable Specifications	
Conductor	Copper Wire 2x8.0mm ²
Strands	0.254x160 per conductor
Overall Diameter	4.0mmx8.0mm
Insulation	PVC Rated @ 70C as per IEC 227 52&53

Wiring Information

Aquatran Power Supplies and Lighting must be installed by qualified electricians or tradepersons. Refer to the diagram below for an indication on the number of lights powered by a single Aquatran power supply. For example, to power 4 50W lights, you would need a 200VA power supply.



IP Rating Information

The IP (Ingress Protection) rating system provides a means of classifying the degrees of protection from foreign bodies and liquids afforded by electrical equipment and enclosures. The degrees of protection against the ingress of foreign bodies and liquids are indicated by the first two numerals as detailed in the table below. For example, IP66 rating provides total protection against the ingress of dust and can withstand powerful water jets.

1st Digit	Description	2nd Digit	Description
0	No Protection	0	No Protection
1	Protected against ingress of objects >= 50mm in diameter.	1	Protected against vertically falling drops of water.
2	Protected against ingress of objects >= 12.5mm in diameter.	2	Protected against vertically falling drops of water, when enclosure tilted up to 15 degrees.
3	Protected against ingress of objects >= 2.5mm in diameter.	3	Protected against spraying water.
4	Protected against ingress of objects >= 1mm in diameter.	4	Protected against splashing water.
5	Dust Protected	5	Protected against water jets.
6	Dust Tight	6	Protected against powerful water jets.
		7	Protected against the effects of temporary immersion in water.
		8	Protected against the effects of continuous immersion in water.

