CONTROLLED ENVIRONMENT ENCLOSURES FOR OUTDOOR ELECTRONICS

The enclosure that houses and protects your electronic equipment is just as important as the equipment itself. Without a proper and secure enclosure, sensitive electronic equipment will quickly succumb the ravages of the environment. Powerware puts the effort into designing and planning the enclosure, and lets you concentrate on the design of your network or project. We have the know how to get it right the first time.

Custom Engineered

Powerware enclosure engineers will take your particular performance specifications, such as heat dissipation, power demand, battery reserve, environmental conditions, size restrictions, cable access, price limitations and design a custom enclosure that creates the perfect environment and protection for your equipment.

3D Modelling

Powerware uses the latest 3D modelling CAD software to design its outdoor enclosures. The 3D modelling enables accurate validation of mechanical designs without the expense and time delays associated with prototype manufacture. Powerware will produce “E drawings” in manoeuvrable 3D form so that you the customer can see in detail how your enclosure will look after manufacture. Over 99% of mechanical issues can be sorted out prior to forming the first cabinet.

Design Experience

Powerware design engineers are specialists in the field of outdoor enclosures having spent many years in the industry, at some of the largest Telecommunications and Aerospace companies in the world. The Powerware enclosure design team understand the requirements of modern, electronic equipment and how to provide an outdoor environmental protected system.

Standard Solutions

Our range of standard outdoor enclosure solutions enables quicker delivery than a custom solution. It is also the preferred approach when
a low volume project does not fully justify a custom-engineered solution.

Design for Manufacture

All Powerware outdoor enclosures are designed for manufacture. We work closely with the metalwork industry to provide electronic manufacturing files with tooling allowances already built in. This means that all Powerware enclosure designs will be cost effectively manufactured with the minimum of manual rework. We have developed special software to convert CAD models into production files thereby ensuring accurate, timely and consistent reproduction of the engineered design.

Designs for Local and International Conditions

Powerware has designed and manufactured outdoor enclosures for Australia and for overseas. We have successfully provided enclosures in locations as diverse as metropolitan New Zealand, the Australian desert, and Malaysian cities. We use materials and finishes that best suit the locality, and environment. Many of our cabinets are built from marine grade aluminium to provide the utmost resilience to salt or pollution laden air.

Australian Content

Powerware enclosures are designed and built right here in Australia. This ensures that we keep jobs for Australians. The enclosure solution you get is not like a globally offered product where you are forced to compromise your requirements.
Tested to meet your specifications

No matter what your specifications demand, Powerware can arrange testing to prove compliance. Thermal, ballistic, wind, EMI, acoustic, and vibration are just a few of the tests that can be done to ensure the finished design will provide years of trouble free field service. Our cabinets have undergone at time rigorous testing to prove customer expectations.

**Thermal Design**

Our enclosures, depending on the application, are designed with either air to air heat exchangers, active air conditioners, forced ventilated air, or straight solar and thermal shielding. We use a proprietary Powerware air to air heat exchanger profile that has been designed for maximum performance and lowest cost. When we use active air conditioning, we select products specially designed for professional enclosure applications.
Typical Outdoor Enclosure Features

- Utility meter window
- Emergency generator inlet & switch
- Separate battery compartment
- Ventilated batteries to remove waste hydrogen locking for
- Anti graffiti paint option
- Galvanised plinth
- Separate MDF compartment
- Paddle latches
- MDF cable gland plate
- Thermostatically controlled DC fans
- 3 point locking for maximum security
- Double skin for maximum environmental protection

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