



- Ways Alpha Energy can assist you to slim down your IT&T rack space and energy power costs.



## 1. Short Depth UPS

Purchasing a short depth and or slimline UPS - (Uninterruptible Power Supply) can be a great way to reduce valuable real estate space in your communications cabinet and save power bill dollars off your server room costs.

Purchasing a network management card will also allow proactive local and remote alerts of potential issues, thus allowing quick response maintenance and less down time.

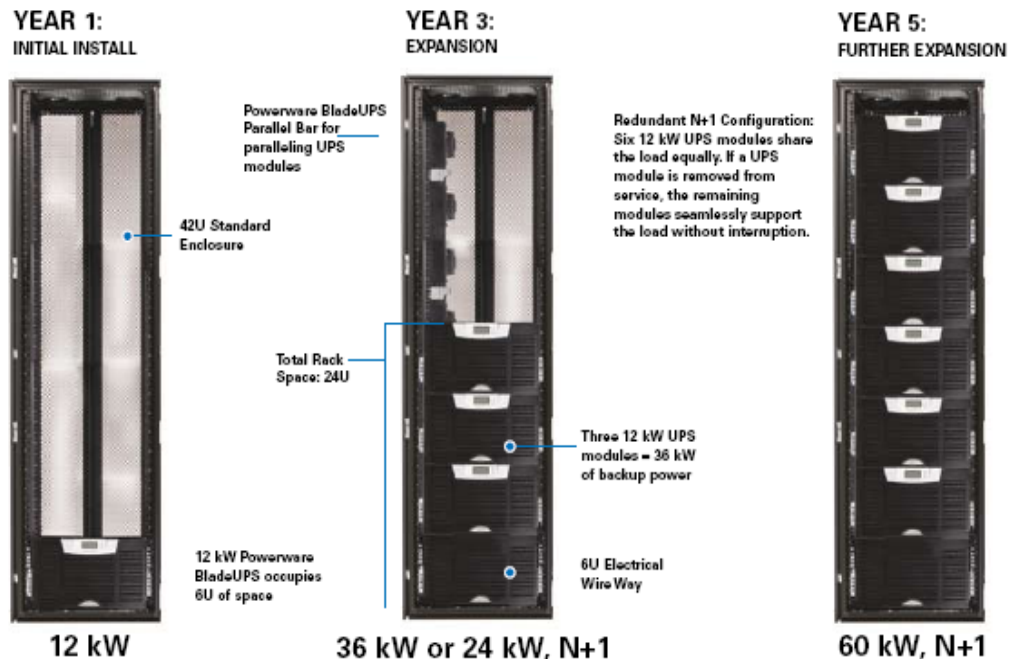
Invest in the future and setup a modular hot swappable chassis that will grow with your needs saving the initial cost of a larger UPS system.

### Meet current and changing requirements with modular architecture

The building block of the Powerware BladeUPS system is a 6U rackmount module that provides 12 kW of backup power protection. The system expands easily to provide maximum results. As your data centre grows, the system's modularity plays a key role in optimising your capital planning and deployment. Using the patented and field-proven Powerware Hot Sync paralleling technology, up to six Powerware BladeUPS modules can be paralleled for extra capacity or redundancy, providing 60 kW of redundant backup power protection in one 19" rack.

Patented load-sharing control intelligently distributes the workload among modules without requiring direct synchronisation links. Any module can provide backup support to the other, with no interruption or downtime. For instance, in a redundant system you could perform full maintenance on any module without any interruption of conditioned power to the protected IT equipment.

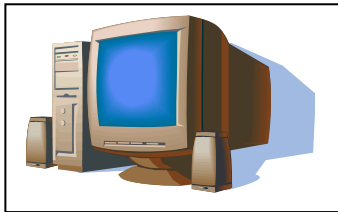
*The Powerware BladeUPS is the most scalable backup power protection solution of its kind, scaling easily from 12 kW to 60 kW, N+1 redundant, in a standard 19" rack enclosure.*



*The Powerware BladeUPS is designed to be extraordinarily flexible—configured as a single module or multi-module system (up to six modules) in a standard 19" rack enclosure. The modular design enables you to deploy just the right amount of backup protection for your current needs, and expand later whenever needed.*

## 2. Unified Management Systems

Deploy an external cloud based CRM and use a managed IT service company to provide the necessary processing power, office software, threat protection and user ports needed to accommodate the correct number of staff in you organization. For example at Alpha Energy we use Netsuite as the cloud based CRM which is also the company’s internal inventory software, warehouse, sales, website/web store and accounting operating system. It is all taken care of by the Netsuite system. This reduces the need for multiple legacy systems and conflicting software. Netsuite also provide some data disaster recovery in case of emergency.



- In relation to the Managed IT services available, there are a vast number of companies willing to offer a number of different price plans and services to suit all company needs.

## 3. Simply Cost Effective Racks

Use different floor mount, stand alone, heavy duty cabinets and racks to suit all your server room and business needs. Server real estate space is valuable, so make sure you consider a holistic view to get the overall plan and investment correct on the first go. This will save future expenses and costs associated view mistakes and bad choices. Make sure the air flow is also calculated as this is a crucial flaw in many server rooms and can reduce the life and reliability of your equipment and D.C batteries.

## 4. AC/DC Power rectifiers, inverters and filters

A range of din rail, standalone and rack mountable power products, surge protection and harmonic filters can make or break your network performance & operation. This is especially true if your organization is in a rural location or near an industrial estate where A.C power can fluctuate from day to day and from summer to winter.

## 5. Overall thoughts

Overall thoughts to an effective IT&T campaign is to balance investment, company needs, growth and redundancy into a plan that is viable, flexible and future proof. If you need to pay for experts and customization solutions to suit your company needs, do so and use cloud based virtualization alternatives where possible to ensure you stay up to date and competitive with the everyday increasing updates to software & hardware infrastructure. Don’t forget about backup battery technology and ventilation specifications in the overall plan as this is very important for longevity and reliability to the equipment in your server room and consistent performance.

