

Case Study

Confronted by a problem commonly faced by security professionals when designing contemporary CCTV systems, a local security installation company sought Tactical's advice while configuring a complex solution for their customer.

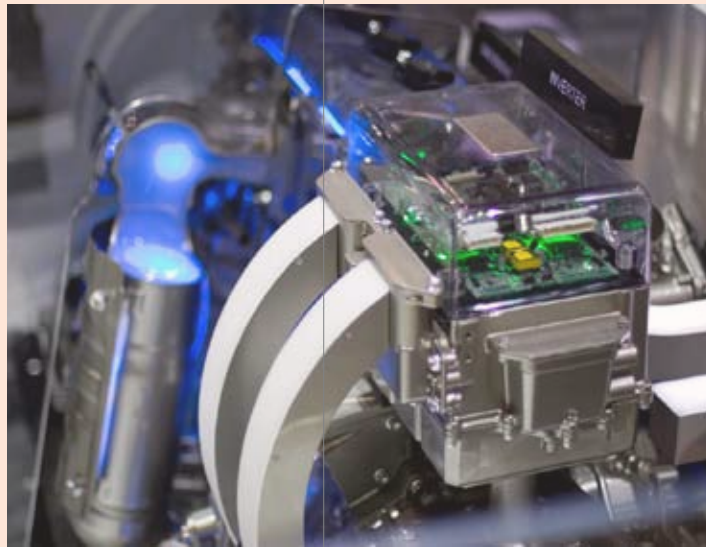
The site in question comprised a large industrial complex with offices and warehousing located at one end and a large area adjacent, providing heavy transport parking and loading facilities.

A variety of cameras were to be located throughout the site, including internal & external domes, some with fans & heaters, together with a selection of Infrared Illuminators for night surveillance.

A secure, air-conditioned room was set aside to house power supplies, digital video recorders, UPS & fibre multiplexers, whilst command & control was also required in a 24Hr guard station at the entrance to the site.

Many would consider the requirement so far to be fairly routine, however the sheer size of the site and the length of camera power cable runs required the use of 12Vdc power supplies for cameras and IR illuminators at remote areas of the premises.

Whilst the DVR's and cameras close to the main building



By employing an in-house team of qualified engineers , Tactical ensures its products will exceed your expectations - today and into the future

were catered for by a large Tactical supplied MGE UPS, the question of how to maintain operation of the outlying devices during a power outage was unresolved.

The problem was quickly solved with the installation of a number of TPS12-5Si power supplies with SLA (Sealed Lead Acid) batteries.

Each TPS12-5Si provided battery backed 12.2Vdc for the attached remote device, maintaining operation for several hours during a mains power outage, without the use (and expense) of a large number of conventional UPS. Unlike conventional 13.8Vdc power supplies, The TPS12-5Si provided a regulated 12.2vdc regardless of mains or battery operation.



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Attention to detail and sound engineering are the hallmarks of Tactical power products. This has never been more so for the new TPSi Series. Designed from the ground up by our in-house team of qualified engineers to exceed the requirements of strict new Australian & New Zealand standards, the TPSi Series provides reliability & performance in the field second to none. Ask your authorised Tactical Distributor for more information or visit our website:

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The TPSi Series meets or comfortably exceeds stringent new Australian & NZ Electrical Safety & EMC Standards.

Whilst they may appear similar to previous Tactical models, the TPSi Series has in fact been re-engineered from the ground up, offering features and performance previously unavailable from linear design power supplies.

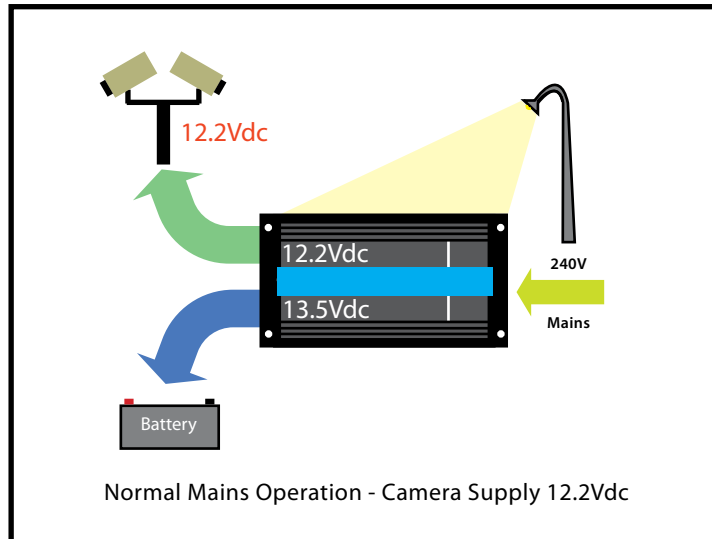
The TPSi Series range features Single Channel 18V, Single or Dual Channel 12.2Vdc and Dual Channel 13.5V Models.

Single Channel models do not have battery back-up, whilst all Dual Channel models feature battery chargers & backup functionality in case of 240V mains failure.

TPSi Series models may be purchased as “stand alone” power supplies or ordered factory fitted in powder coated steel enclosures - with or without individual short circuit protected power distribution boards.

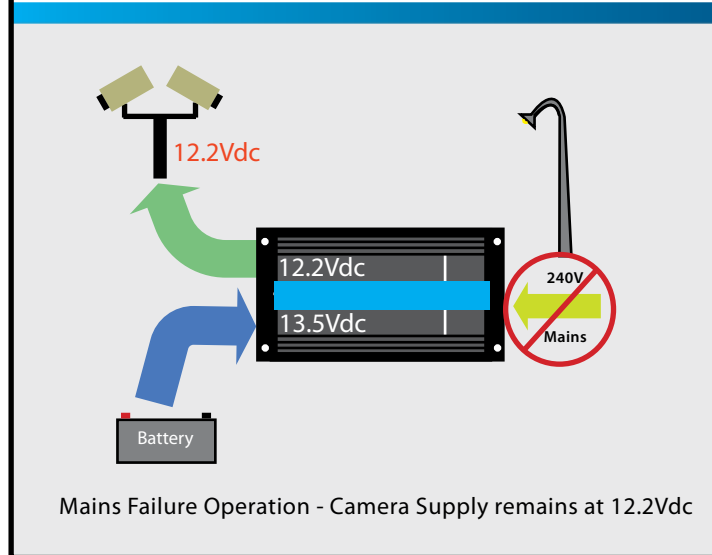
A list of available models may be found on the Tactical website:

www.tac-tech.com.au



TPS12-5Si Operational Example:

During normal operation, TPS12-5Si provides clean, regulated 12.2Vdc to power your load devices (e.g. cameras, IR illuminators, etc) and 13.5Vdc via a separate channel to charge the stand-by battery.



In the event of a 240V Mains failure or black-out, 13.5Vdc from the standby battery is “re-regulated” to 12.2Vdc to power load devices.

This backup “re-regulation” takes place instantaneously, without interruption to the load and continues until the mains is restored or the standby battery is exhausted.

Note that while the output voltage is designed not to exceed 12.2V, this voltage may become lower as the battery discharges.



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TPSi Series

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