

## In this Issue

<b>Magellan Wins Air Services contract</b>	<b>1</b>
<b>Former Current Affairs Journalist joins Magellan</b>	<b>1</b>
<b>Product Feature MCR-II</b>	<b>2</b>
<b>Masoud On...VRLA</b>	<b>3</b>
<b>Contact Us</b>	<b>3</b>

## **Magellan Wins Air Services Australia Contract**

Magellan has recently secured a two year contract with Air Services Australia.

The contract – for the supply of Magellan’s highly reliable MCRII DC Power Systems – is the second of its kind that Air Services has signed with Magellan. Managing Director, Masoud Abshar said it was a fantastic start to the New Year.

“By winning this contract again it shows our equipment stands up in some of the most critical applications and it is a testament to our products and services.”

The MCRII Power Systems will be used in Air Service’s instrument landing equipment, which guides planes onto the runway, allowing the maximum number of aircraft to land safely.

Mr Abshar says that the Air Services contract highlights the MCRII’s reliability.

“In air traffic control there is no room for failures. Our highly reliable equipment means passengers will be kept safe even if there is a power problem in air traffic control.”

Magellan will be supplying equipment for facilities in Cairns, Sydney, Canberra and Alice Springs.



Image courtesy of [www.aviationlawmonitor.com](http://www.aviationlawmonitor.com)

## **Former Current Affairs Journalist Joins Magellan**

Having worked in Sydney for Channel 7’s Sunrise, News Limited and most recently at Perth’s A Current Affair, Jolleh Abshar brings to Magellan a broad range of skills from her time in the media.

From red carpets, to jumping out of helicopters- Jolleh has spent the past five years in an industry that’s fast paced and dynamic.

But now she’s decided to leave the hectic world of TV to pick up some new skills in the family business, Magellan Powertronics.

Along with Christie Simpson she’ll be working in PR, Marketing and research for Magellan.

“I’m learning a lot about business and the way the company works which is really exciting and very different from what I was doing before.”

And working with her Dad, Director Masoud Abshar doesn’t seem to bother her- yet.

“He’s a hard task master- I definitely won’t be slacking off in this position, and I’m looking forward to the challenges that present themselves with learning a new field.”



## Product Feature – MCR-II

With an optional integral battery impedance monitor that can assess the health of the battery *and* the integrity of its connections, the MCR-II series is undoubtedly the most advanced battery management system of its kind.

Incorporating dual battery management capabilities including automatic battery testing, the MCR-II prolongs battery life in any application. Highly reliable, robustly designed and with advanced communication facilities that enable full remote monitoring of the system, the MCR-II is state of the art.

Available in single and three phase up to 100kw, and using ultra rugged phase controlled technologies, this series is ideal for all industrial applications including substation battery systems and DC UPS.



### Product Features

- Rugged phase-controlled thyristor technology
- Versatile constant voltage and constant current charging modes
- Large LCD graphic display
- Comprehensive 11 parameter metering
- Batter impedance and capacity measurement
- Dual battery metering and testing facility
- Programmable battery current limit
- Precise adjustable temperature compensation
- Ideal for all battery types
- Full AS2293 user programmable alarms
- Single and dual battery testing capability
- Limp home feature guarantees operation even if microprocessor fails
- DNP3 Protocol
- Ethernet TCP/IP and Web-server
- Modbus TCP, RS232/485 Modbus
- Full data logging
- Revert to factory settings feature



## Masoud On...VRLA



*This is the first in a series of technical tips by Masoud giving engineers important insight when choosing power equipment.*

With the cost of NICAD batteries remaining high and industry awaiting the complete arrival of Lithium batteries as an alternative, Valve Regulated Lead Acid (VRLA) batteries continue to be the most popular batteries for AC and DC UPS applications. The following points are the tried and tested truth about these batteries:

- They typically last 4-6 years
- They produce Hydrogen during charging and therefore air flow is needed to eliminate accumulation of Hydrogen.
- Service life of a VRLA battery is halved for every 10°C above 25°C.
- Prone to sudden death.
- Capacity varies with temperature.
- Life depends on number of charge/discharge cycles.
- They need highly regulated, low ripple, temperature compensated chargers.
- Being left in a discharged state will damage the battery.
- Unequal cell voltages affect the life of the battery bank.
- Battery bank needs monitoring during its lifetime.
- Impedance monitoring is the best indicator of health of the battery.

*Masoud Abshar Director of Magellan Powertronics holds a Masters Degree and 30 years experience in the Power Electronics industry, specializing in power electronics and industrial batteries. If you have any questions on this feature for Masoud or suggestions for future topics please contact Christie Simpson [csimpson@magellan-power.com.au](mailto:csimpson@magellan-power.com.au)*

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