

REG-D/REG-DA Battery Overview

HV Power has proudly been supplying and supporting A.Eberle Voltage Regulator relays in New Zealand since the first customer project in November 1998. Therefore, there are REG-D's which have been in service for more than 20 years! The first REG-DA's were supplied in 2004, so those would now be in their 20th year of service.

Therefore, the earliest REG-D units should have had their third battery replacement done by now, and the earliest REG-D's should have had their second battery replacement done. Question: are the battery maintenance requirements for the REG-Ds and REG-DAs on your network up-to-date?

The issue is that in the earliest generation of hardware the battery was used to maintain settings. If the battery becomes flat over time and the device is powered down – goodbye settings. This subject has been a regular topic of our newsletters over the years, so should be familiar to many. That date came to light recently following some research for a person who experienced what happens when information is forgotten or not passed on.

Our recommendations, put a label on the voltage regulator.



Do not turn off, if battery alarm activated.
Backup settings/contact HV Power.

Battery replaced 7/12/2018, due 12/2024

The good news is that:

- 1) REG-D & REG-DA units manufactured from about 2004 onwards can make use of a handy feature in the V2.12 Bootloader. The 'RAM backup' feature allows a copy of the setting file to be copied into non-volatile memory from where it can be recalled (automatically on power up with firmware V2.22 onwards).

Refer to our VRR-033 Document on Bootloader V2.12 back-up and restore parameters for more information

The REG-D/DA still uses the battery for logs etc, so we recommend this battery is replaced every 6-10 years. We recommend you monitor the battery status SCADA point to warn when replacement is required in the future.

- 2) For the latest generation of hardware, the settings are backed-up by non-volatile memory. There is no longer a battery on these units (and therefore bootloader RAM-Backup function is not provided). These latest generation units are:
 - REG-D units with MRAM (manufactured from 5/2014)
 - REG-D unit with S2 processor (manufactured from 9/2013)
 - REG-DA units with MRAM (manufactured from 8/2014)
 - REG-DA unit with S2 processor (manufactured from 9/2013)

HV Power stock the different battery types for all REG-D & REG-DA's (there are a couple of different versions). Contact us now for pricing and assistance.

Typically the first four digits of the serial number on the Voltage Regulator provide the date of manufacture in the form YYMM. HV Power also keeps records of all products we supply, so contact us if a report on when products were supplied to your network would be helpful.