

Voltex (Pty) Ltd t/a Electech Renewable Solutions

Telephone: | +27 10 003 2831

Physical Address | 17 JG Strydom Road, Weltevredenpark

Postal Address | P.O. Box 193, Edenvale, 1610

Website | www.electechrs.co.za



15 March 2021

RE: RITAR RA12 – AGM

Dear client,

The reason for this letter is to outline the application and use of the **Ritar** RA12 - AGM batteries on sale by the **Voltex Group**. This letter will also highlight the charge voltage parameters, recommended charge currents and recommended settings for **Axpert** and **Victron** Systems.

The **Ritar** RA12 - AGM batteries are designed to be integrated with Backup and UPS systems only. The low cyclic capacity of these batteries requires them to be used in systems where they remain in float and are not regularly cycled. They are not intended for off grid or solar systems where they are cycled daily.

Electech Renewable Solutions (ERS) and **Ritar** stress that all potential clients are made aware of the application and settings, brought out below, to ensure healthy operation of the battery therefore ensuring that the guarantee offered by **Ritar** can be achieved.

Kindly note that this letter does not replace the specification document of the mentioned battery, but serves as a recommendation, the installing party will still need to review the specification sheets to ensure that settings are correct and in accordance with manufacturers specification.

The **ERS** team cannot emphasize enough that installers must check the side of the battery to determine if it is the correct battery as specified by point 1 in Addendum A.

Please feel free to reissue this on your own **Voltex** branded letterhead should you wish.

Should you have any queries please do not hesitate to contact our technical team who will gladly assist you .

A handwritten signature in black ink, appearing to read "J. Hattingh", is written over a horizontal dotted line.

Jacques Hattingh

General Manager



ADDENDUM A: RITAR CHARGE PARAMETERS

Charge parameters:

Absorption/Cycle Voltage :14.6VDC

Float Voltage :13.6VDC

Low Voltage Disconnect :10.5VDC

Charge current:0.10C

This is per battery, voltage parameters will need to be applied to the relevant system operational voltage. Charge current will remain the same.

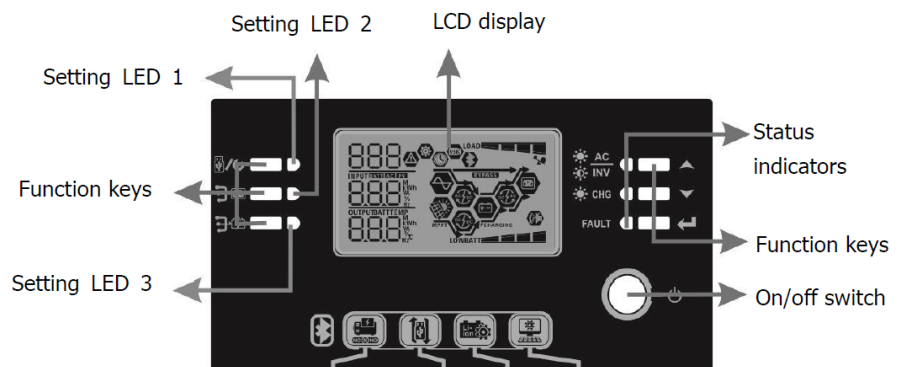
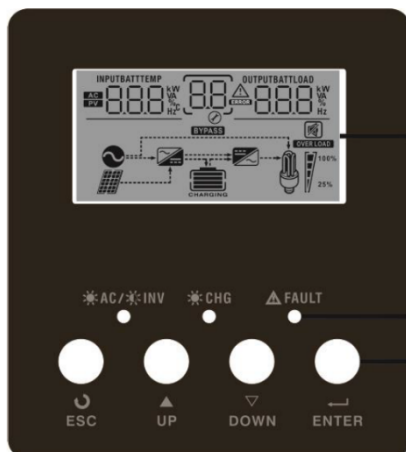
- 1. You can confirm the above voltage parameters by reviewing the side of the battery this will indicate "Cycle use". This will be 14.6-14.8V.**

Victron Settings

Due to the advanced nature of the **Victron** systems, these will need to be installed by certified **Victron** installers. On commissioning please contact **ERS** to advise any **Victron** installer on the required assistants, parameters and settings for the application.

Axpert Inverter Manual Setup

- Connect the battery to the inverter (pos+ / neg -)
- Close the inline fuse disconnect or battery Isolator.
- The inverter will start up, ensure that the inverter is switched to the on position.
- Press "Enter" and hold for 5 sec., to enter into the settings menu.



- Press "Up" and "Down" to choose the setting number and press "Enter" to be able to change the parameter, once changed press "Enter" again.



Axpert Manual Setup

Setting Number	RA12 – AGM Battery
Setting 01	UTI
Setting 02	Set to 0,10C x Ah capacity of the battery bank
Setting 05	Set to USE
Setting 11	Set to 0,10C x Ah capacity of the battery bank
Setting 26	Set to 14,6V/29.2V/58.4V
Setting 27	Set to 13,6V/27,2V/54.4V
Setting 29	Set to 10,5V/21V/42V
Setting 33	EDS -Disable

Please note that the above settings "Axpert Manual Setup" are only valid for the Axpert Models Electech Renewable Solutions supply, namely the MKS, MKS II, KS ,Duo, Tri and King.

