Trimble NetR5, NetR8 and NetR9 - Critical Power-On/Off Configuration Details

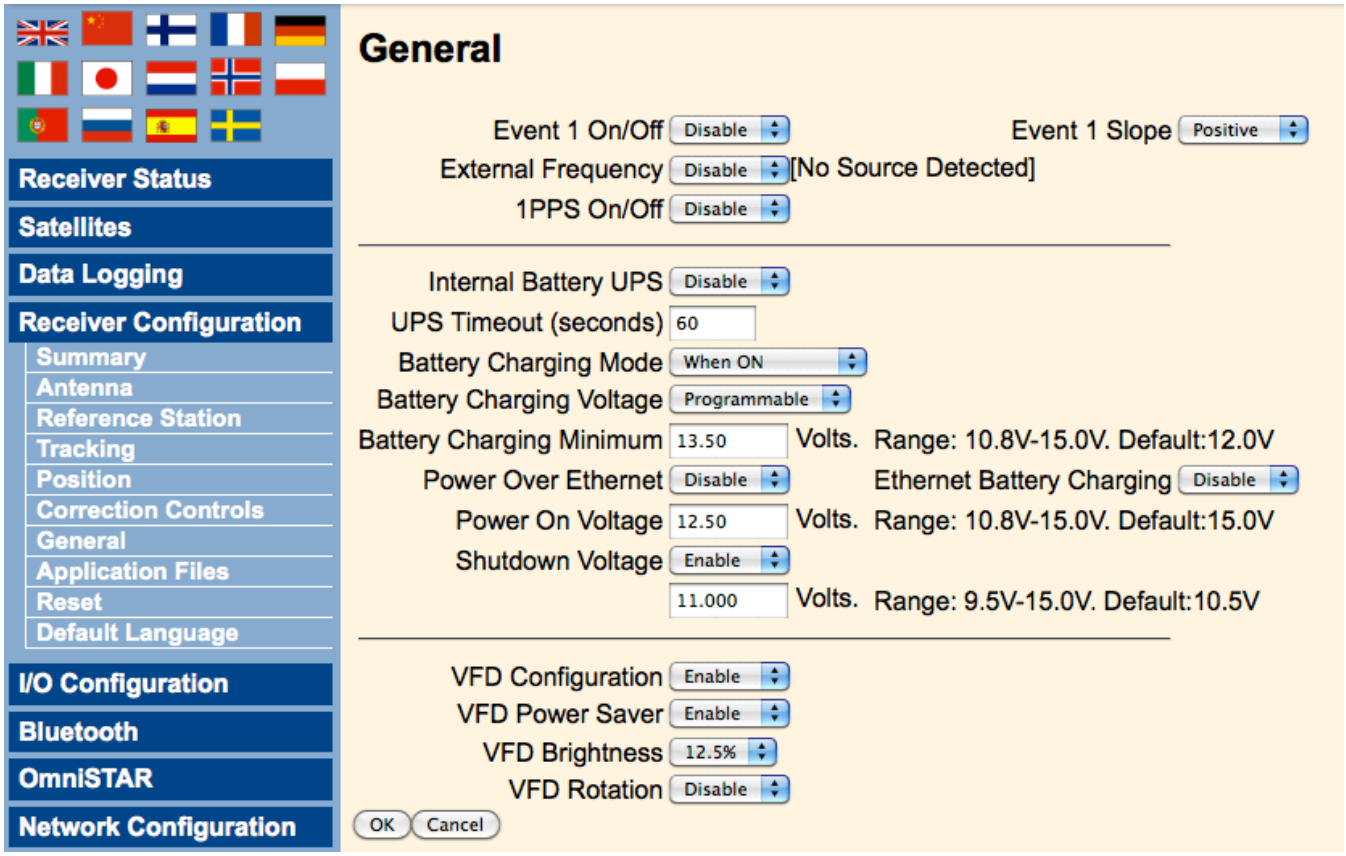
700 Freddy Blume October 11, 2012 Trimble, Trimble NetR5, Trimble NetR8, Trimble NetR9 8647

NetR5, NetR8, and NetR9 hardware requires that Power On and Shutdown Voltages be properly configured to ensure proper functionality when used with DC power systems.

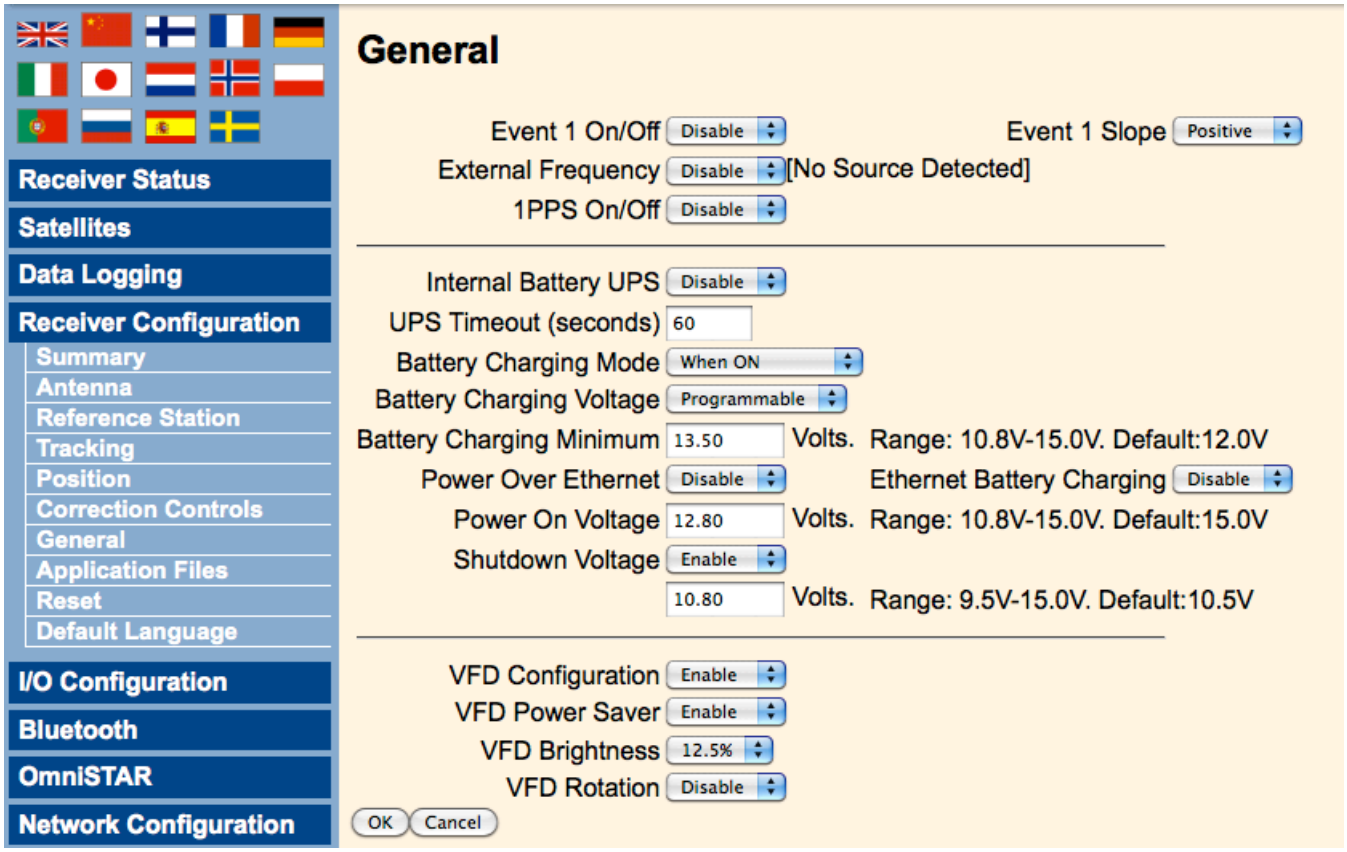
UNAVCO has determined, and Trimble has confirmed, that a NetR5, NetR8, or NetR9 configured with a Power On Voltage that is not more than 1 Volt greater than the Shutdown Voltage will not power on as programmed under certain circumstances. UNAVCO suggests that a minimum separation of 1.3 Volts be used.

These settings are found in the "General" submenu of the "Receiver Configuration" menu of the web interface. UNAVCO recommends the following configurations, depending on the type of Charge Controller being used:

1. If a Charge Controller without a Low Voltage Disconnect (LVD) is used:
Power On Voltage: 12.50V
Shutdown Voltage: 11.00V



2. If a Charge Controller WITH an LVD is used: identify the voltage thresholds of the LVD and set the receivers voltages below each of them. A commonly used controller - the Flexcharge NC30 - will disconnect the load when battery voltage drops below 10.9V and reconnect at 12.9V. The NetR9 should then be set to:
Power On Voltage: 12.80V
Shutdown Voltage: 10.80V



Users should consider the effects of these settings on their power systems and may adjust them according to need, but should be careful to adhere to the minimum separations. Please contact UNAVCO for advice and assistance testing individual configurations, and for further details.

While future versions of firmware may add enhancements to the user interface that will explicitly warn users of the configuration requirements and change the defaults accordingly, this is a hardware-based feature and will always be present in these receivers.

Online URL:
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