

# On/Off Settings

## Start-up Rate Option

–Controls the rate (mV/μs) of which the controller will ramp up VOUT to the desired **Vboot** voltage or the rate for shutdown if in Programmed Shutdown mode. Start-Up and Shutdown rate can differ from each other if so selected by **Start-up/shutdown rate selection**

## VR Shutdown on Fault

–*All rails shutdown*: all rails will shutdown due to shutdown fault  
–*Fault rails only*: only faulted rail(s) will shutdown due to shutdown fault

This also influence PMBus status reporting.

## Config Delay

–This delay is introduced after the rising 3.3Volt supply passes UVLO to ensure the voltage completely settles  
–After this delay, the VR will initialize the analog measurements which are sensitive to the integrity of 3.3Volt supply.

Typical set to 3.0

## Turn On Delay

Time from Enable signal until Vout start to ramp up.

## Turn Off Delay

Time from Enable signal goes away until Vout start fall.

## Start-up/shutdown rate selection

Start up ramp can be selected to be equal to or slower than the ramp for Turn off. This is useful when powering up a large capacitor bank as the slew rate can be set lower to avoid too high peak currents

The selected slew rate in mV/us for up/down is displayed for information

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## Commanded Shutdown Response

- Hi-Z Shutdown*: Forces both the HS and LS FETs to tri-state when the VR is turned off
- Programmed Shutdown*: VOUT ramps down with the rate specified in the **Shutdown Rate**

## VR\_READY Assert at

- After Soft Start* – VR\_READY is asserted after the soft start ramp to VBoot is complete. This is the appropriate setting for **VR13 application**.
- Beginning of Soft Start* - VR\_READY is asserted after VR\_EN is asserted when the controller is ready to accept SVID commands. This is the appropriate setting for **IMVP8 applications**

## VR\_READY Asserts for

- Loop A only* – VR\_READY pin assertion for Loop A only. This is the appropriate setting where loop independent VR\_READY signals are needed.
- All Active Loops* – VR\_READY pin assertion for all active loops. This is the appropriate setting where there is only one VR\_READY signal for multiple loops.

## OUTEN Active Hi

- Checked*: Output is enabled when VR\_EN is High
  - Unchecked*: Output is enabled when VR\_EN is Low
- The pin used for enable is shown for information

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## PMBus Configuration

When using PMBus there are additional on off settings possible.

Click this button to get to the PMBus page

On/Off Settings - 0x3E

PMBus Configuration

VR Shutdown on fault: All Rails Shutdown

Config Delay: 3.0 ms

Loop A | Loop B

**Turn On**

Turn On Delay: 1 0.2 ms

Start up/Shutdown Rate Option: Programmable

Start-up/Shutdown Rate Index: 10

Start-up Rate Selection: Start-up/Shutdown rate index

Start-up Rate: 10.000 mv/us

☒ **OUTEN Active Hi**

Using: AVR\_EN pin

**Turn Off**

Turn Off Delay: 0 0.0 ms

Shutdown Rate: 10.000 mv/us

**Commanded Shutdown Response**

☒ Hi-Z Shutdown

☐ Programmed Shutdown

VR\_READY Assert at: After Soft Start

VR\_READY Assert for: Loop A Only

Write to device\* Read from device Close Help