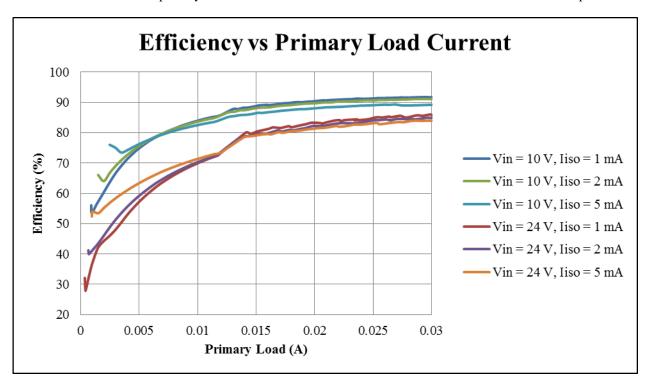


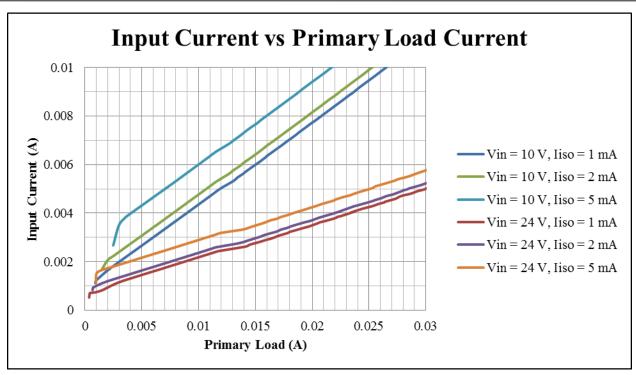
# PMP10977 Rev. A Test Report

### 1 Efficiency

The following graphs show the efficiency and input current versus primary load current. The 3.3V isolated load was kept at a fixed resistance while the 3.3V primary load was varied. The measurements are taken with a 10 V and 24 V input.



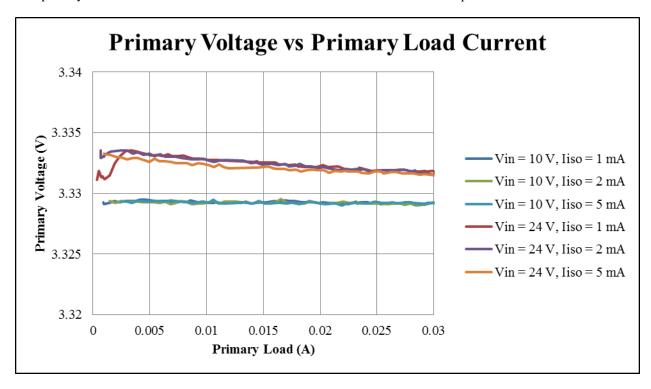


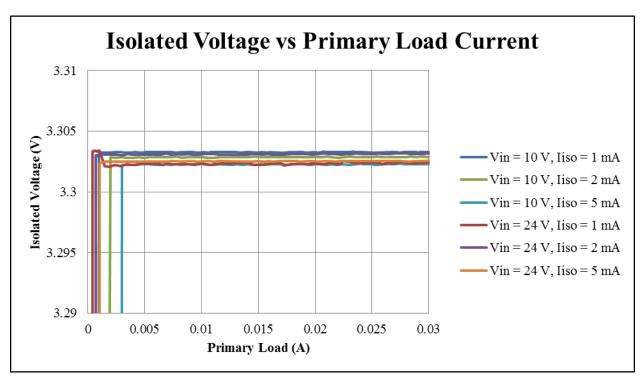




### 2 Regulation

The following graphs show the load regulation for both outputs. The 3.3V isolated load was kept at a fixed resistance while the 3.3V primary load was varied. The measurements are taken with a 10 V and 24 V input.

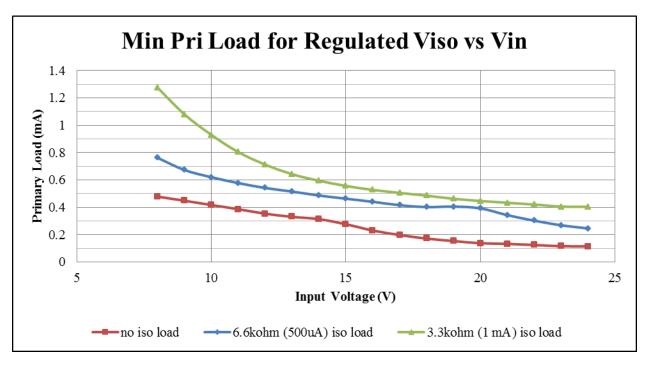


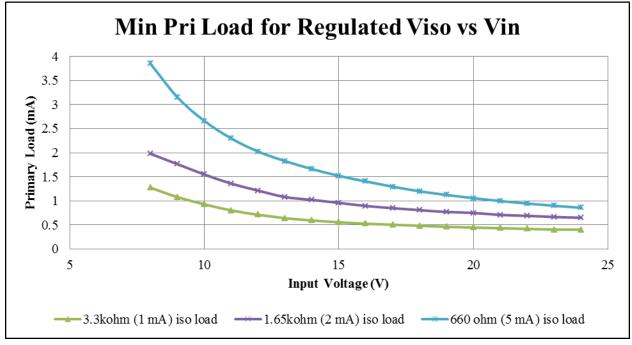




#### 3 Minimum Primary Load

In this topology a minimum primary load is required to regulate the isolated output. The following graphs show the minimum primary load required to bring the isolated output within 1% of 3.3V with varying input voltage. At each input voltage the 3.3V isolated load was kept at a fixed resistance while the 3.3V primary load was increased.



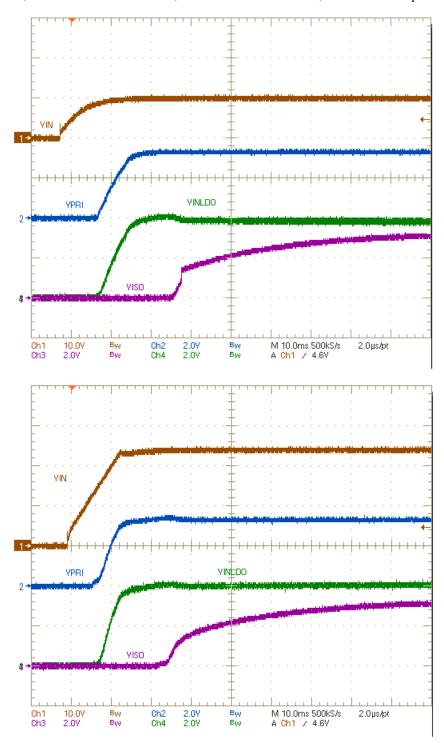




# 4 Startup

The following images show the startup waveform at max load with Vin = 10V and Vin = 24V. Startup is tested by turning on the Vin voltage supply.

(Channel 1 = VIN at TP1, Channel 2 = VOUT at TP6, Channel 3 = VISO at TP3, Channel 4 = IN pin of LDO)

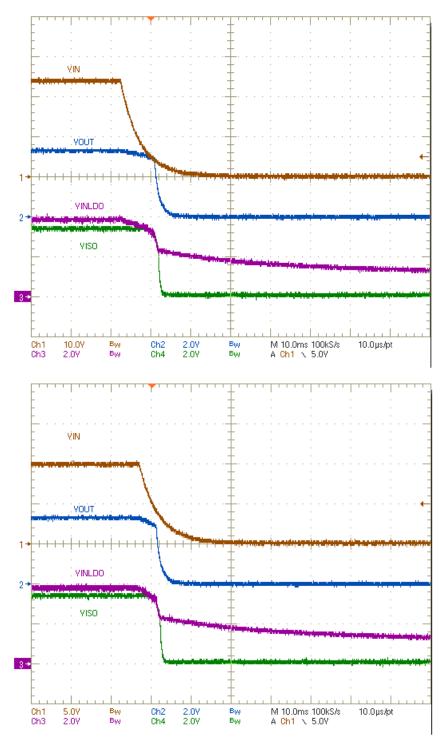




#### 5 Shutdown

The following images show the shutdown waveform at max load with Vin = 10V and Vin = 24V. Shutdown is tested by turning off the VIN voltage supply.

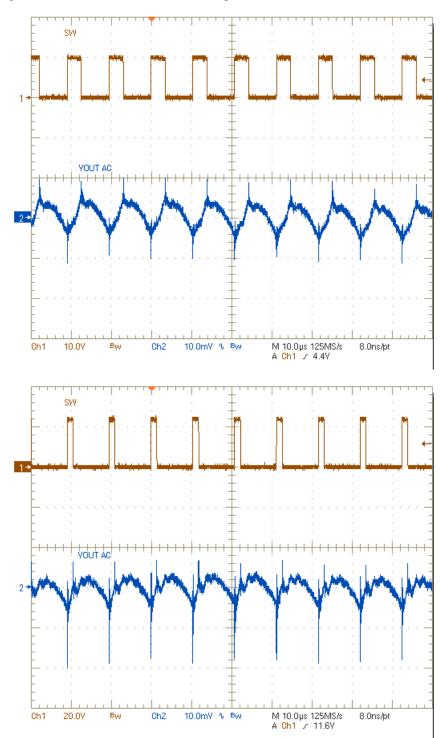
(Channel 1 = VIN at TP1, Channel 2 = VOUT at TP6, Channel 3 = VISO at TP3, Channel 4 = IN pin of LDO)





## 6 Switching Node and Output Ripple

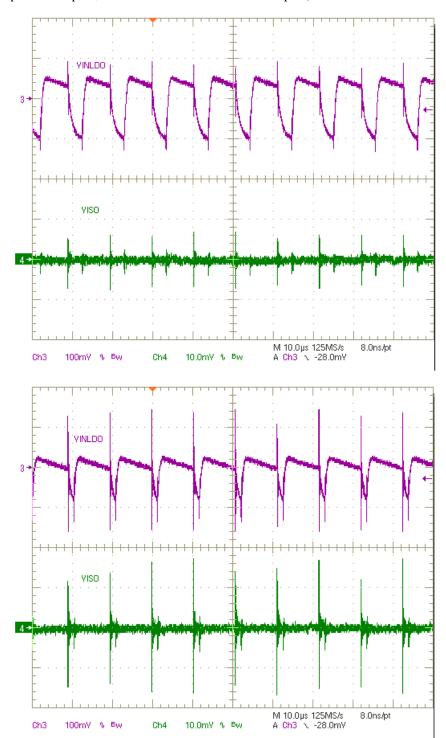
The following images show the output voltage ripple at max load with Vin = 10 V and Vin = 24 V. (Channel 1 = Switching Node PH, Channel 2 = VOUT AC coupled at TP6)





### 7 Isolated Output Ripple and LDO IN ripple

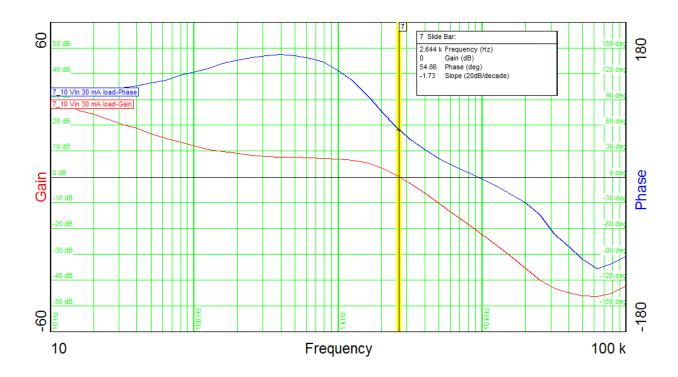
The following images show the isolated output ripple at max load with Vin = 10 V and Vin = 24 V. (Channel 3 = LDO IN pin AC coupled, Channel 2 = VISO at TP3 AC coupled)

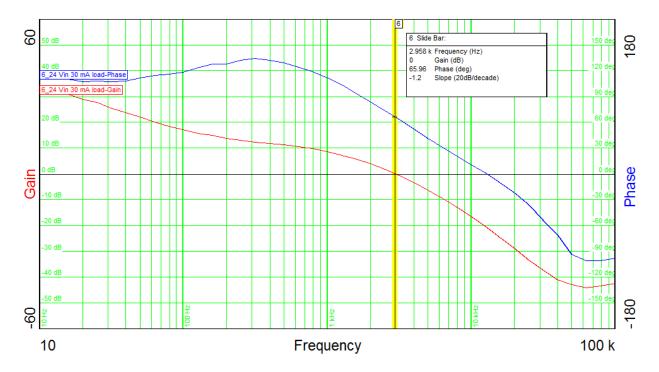




## 8 Loop Response

The following images show the loop response at max load with Vin = 10 V and Vin = 24 V.





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