

HT 6329

Characterization Report

2023/09/27 Internal Use Only

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HT 6329



HT6329 - Functional Block Diagram

| Testing conditions: | Ch1 & Ch2 |
|----------------------|---|
| Input voltage range | 6 V ~30 V |
| Output current range | 0 A ~ 6A |
| Package | QFN32 5mm x 5mm |
| Load Regulation | < 2% |
| Features | Dual channel External HS & LS power FET Switching frequency:150K / 250K / 350K |
| Datasheet | https://static1.squarespace.com/static/64ae 28d3d28f3820aff6e31e/t/64f550e4bc847b7 ef7b4616f/1693798632293/HT6329_datas heet.pdf |

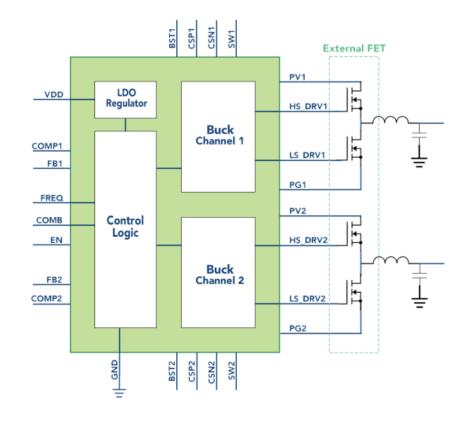


Fig. 1 Functional Block Diagram (COMB=0)

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Parameters checked at standby

| Parameter | HT 6329 |
|-------------------|---------|
| VDD (V) | 5.4 |
| Ivin (mA) | 1.65 |
| Fsw (kHz) | 350 |
| VOUT1 (V) | 5 |
| VOUT2 (V) | 5 |
| ΔVout(mV) @6.5VIN | <50mV |
| ΔVout(mV) @26VIN | <200mV |





Waveform at standby (VOUT, dc)





VIN = 12V

Fsw = 350kHz

VIN = 26V

Yellow: VOUT(dc), Blue: COMP, Red: LS Drv

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Waveform at standby (VOUT, ac)



VIN = 12V

Fsw = 350kHz

VIN = 26V

Yellow: VOUT(ac), Blue: COMP, Red: LS Drv

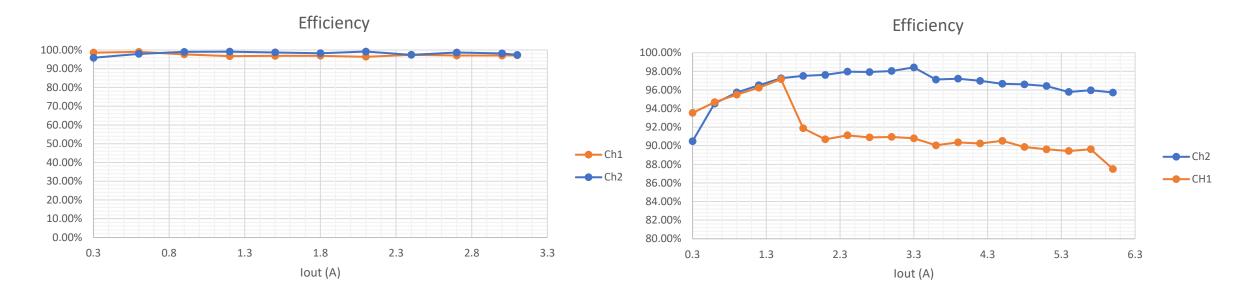
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Power Efficiency test





Vin = 6.6V Iout = 0.3 to 3A Vout = 5V

Fsw = 350kHz

Vin = 12V Iout = 0.3 to 6A Vout = 5V



Light Load Efficiency

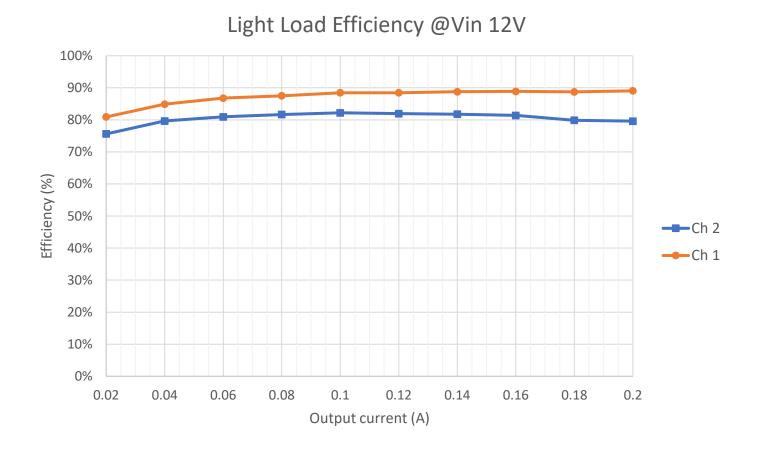


Fsw = 350kHz

Vin = 12V

Vout = 5V

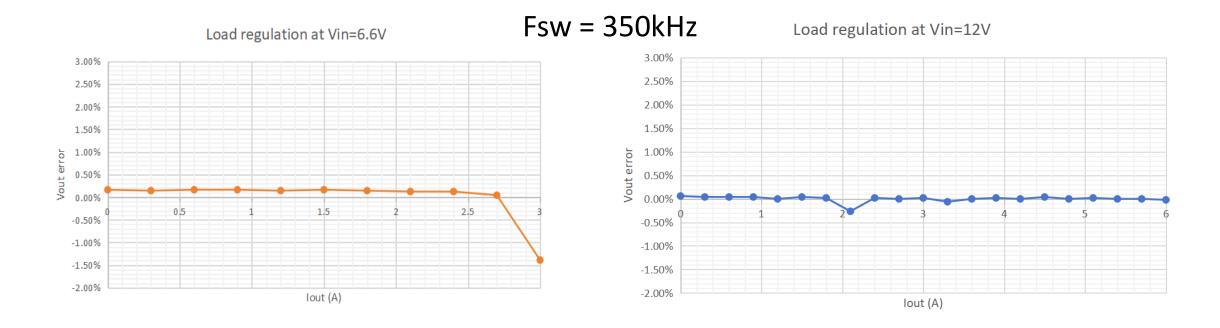
lout = 0.02 to 0.2A





Output voltage error



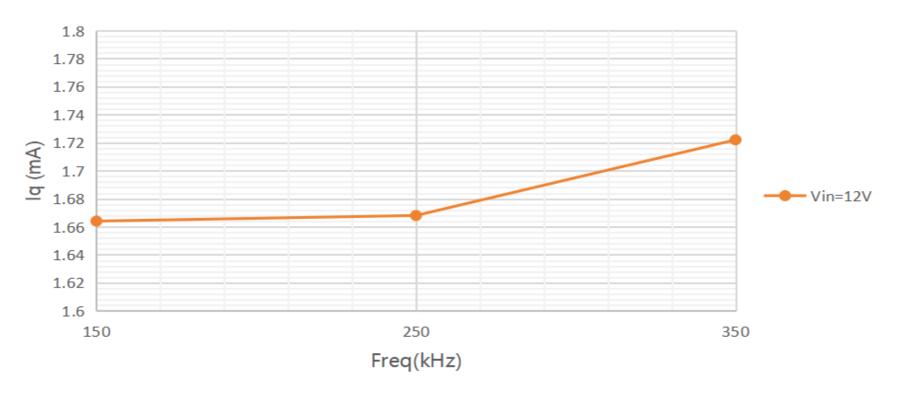




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Quiescent Current (Standby)

Quiescent Current

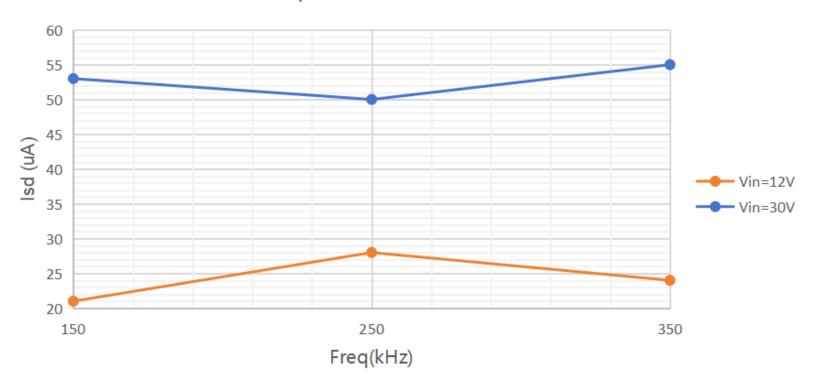




Input shutdown Current



Input Shutdown Current





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