

PMP40069 Test Results

1. BATTERY CHARGER TEST RESULT

1.1 Efficiency

Vin(V)	Iin(mA)	VBUS(V)	Io(A)	Effi.(%)
5.059	1.419	12.512	0.499	86.9
5.000	2.796	12.507	1.006	90.0

Vin(V)	Iin(mA)	VBUS(V)	Io(A)	Effi.(%)
9.008	0.781	12.510	0.498	88.5
9.039	1.497	12.502	0.995	91.9
8.957	2.232	12.500	1.491	93.2
9.050	2.929	12.492	1.988	93.7
8.965	3.722	12.487	2.505	93.7
8.970	4.444	12.480	2.990	93.6

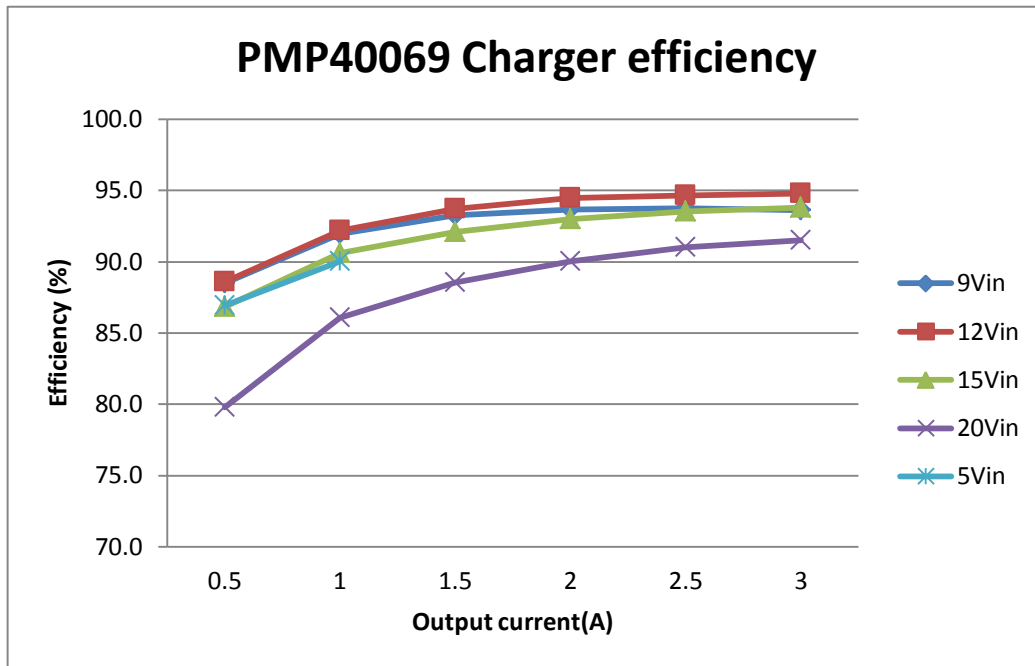
Vin(V)	Iin(mA)	VBUS(V)	Io(A)	Effi.(%)
9.008	0.781	12.510	0.498	88.5
9.039	1.497	12.502	0.995	91.9
8.957	2.232	12.500	1.491	93.2
9.050	2.929	12.492	1.988	93.7
8.965	3.722	12.487	2.505	93.7
8.970	4.444	12.480	2.990	93.6

Vin(V)	Iin(mA)	VBUS(V)	Io(A)	Effi.(%)
11.945	0.590	12.512	0.499	88.6
11.960	1.128	12.502	0.995	92.2
11.964	1.661	12.497	1.490	93.7
11.900	2.220	12.490	1.998	94.5
12.023	2.735	12.485	2.493	94.6
11.968	3.290	12.480	2.990	94.8

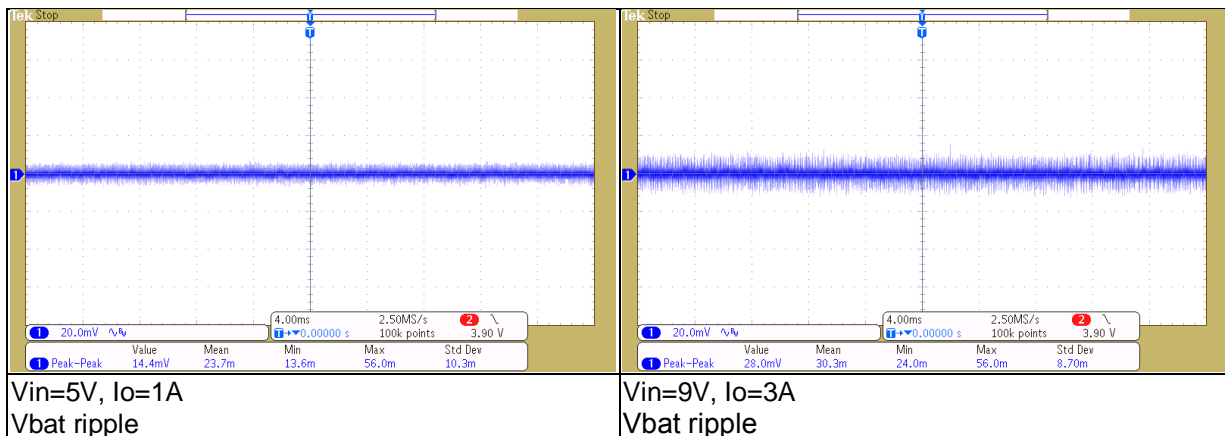
Vin(V)	Iin(mA)	VBUS(V)	Io(A)	Effi.(%)
14.940	0.481	12.512	0.499	86.8
15.054	0.912	12.502	0.995	90.6
15.003	1.348	12.495	1.490	92.1
14.960	1.793	12.490	1.998	93.0

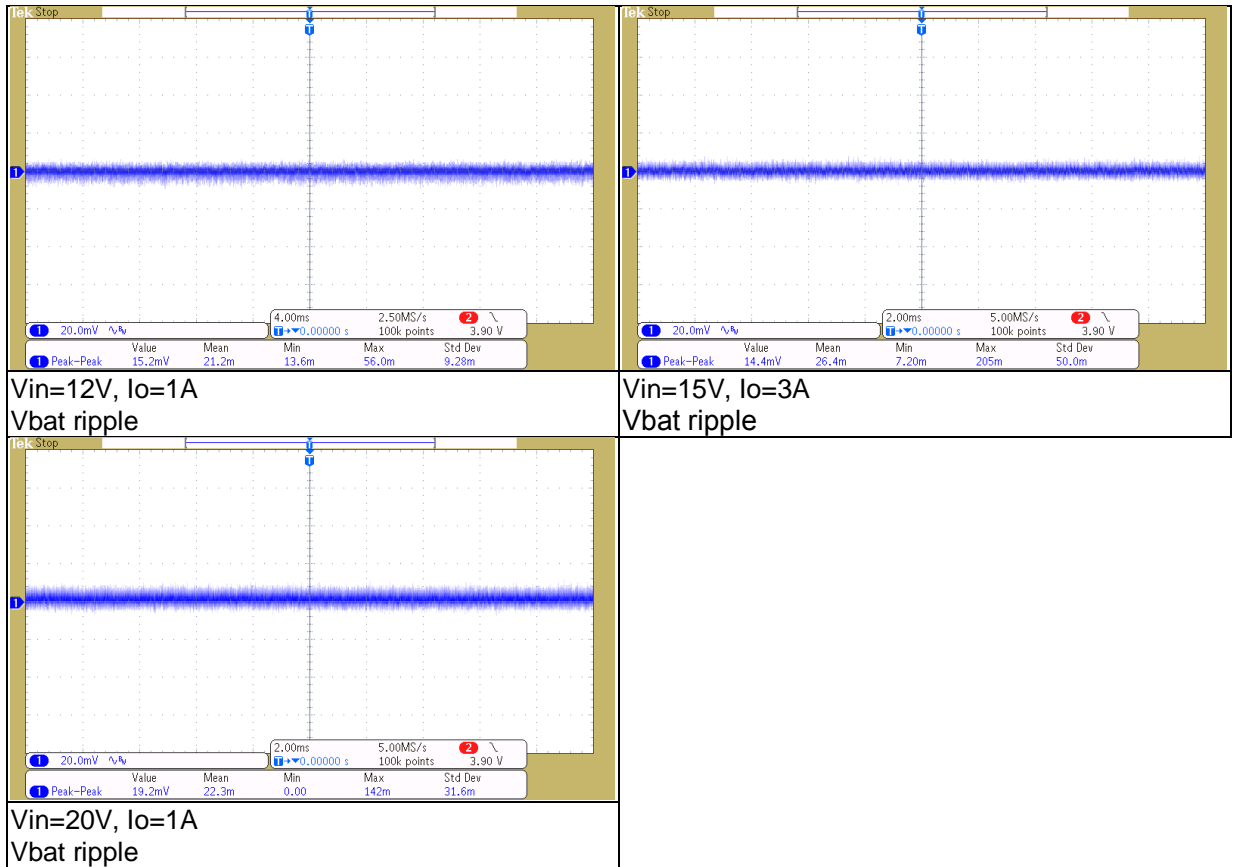
14.910	2.231	12.485	2.493	93.5
14.937	2.662	12.477	2.989	93.8

Vin(V)	Iin(mA)	VBUS(V)	Io(A)	Effi.(%)
20.046	0.390	12.507	0.499	79.8
20.007	0.723	12.500	0.996	86.1
19.972	1.054	12.495	1.491	88.5
19.933	1.389	12.490	1.996	90.0
19.900	1.726	12.480	2.505	91.0
19.957	2.043	12.478	2.990	91.5

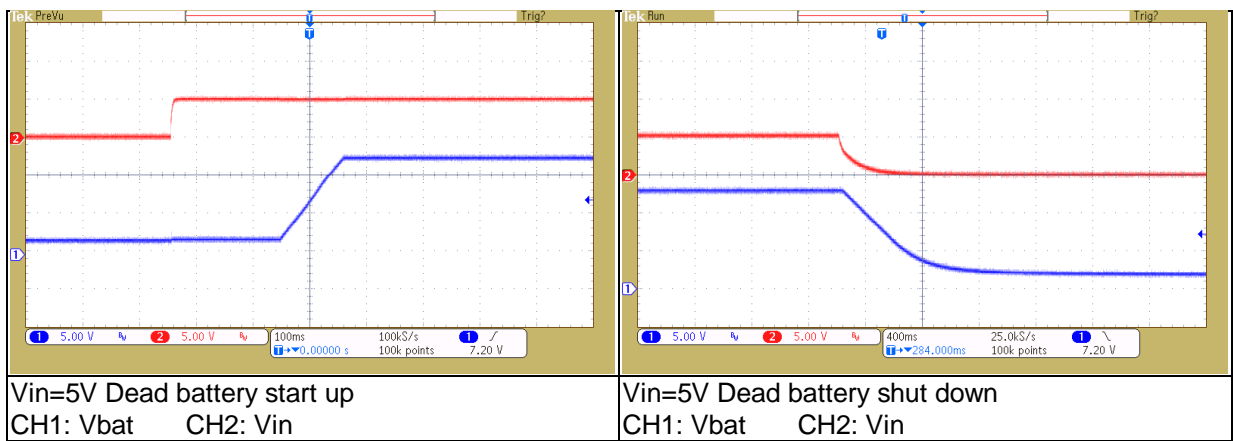


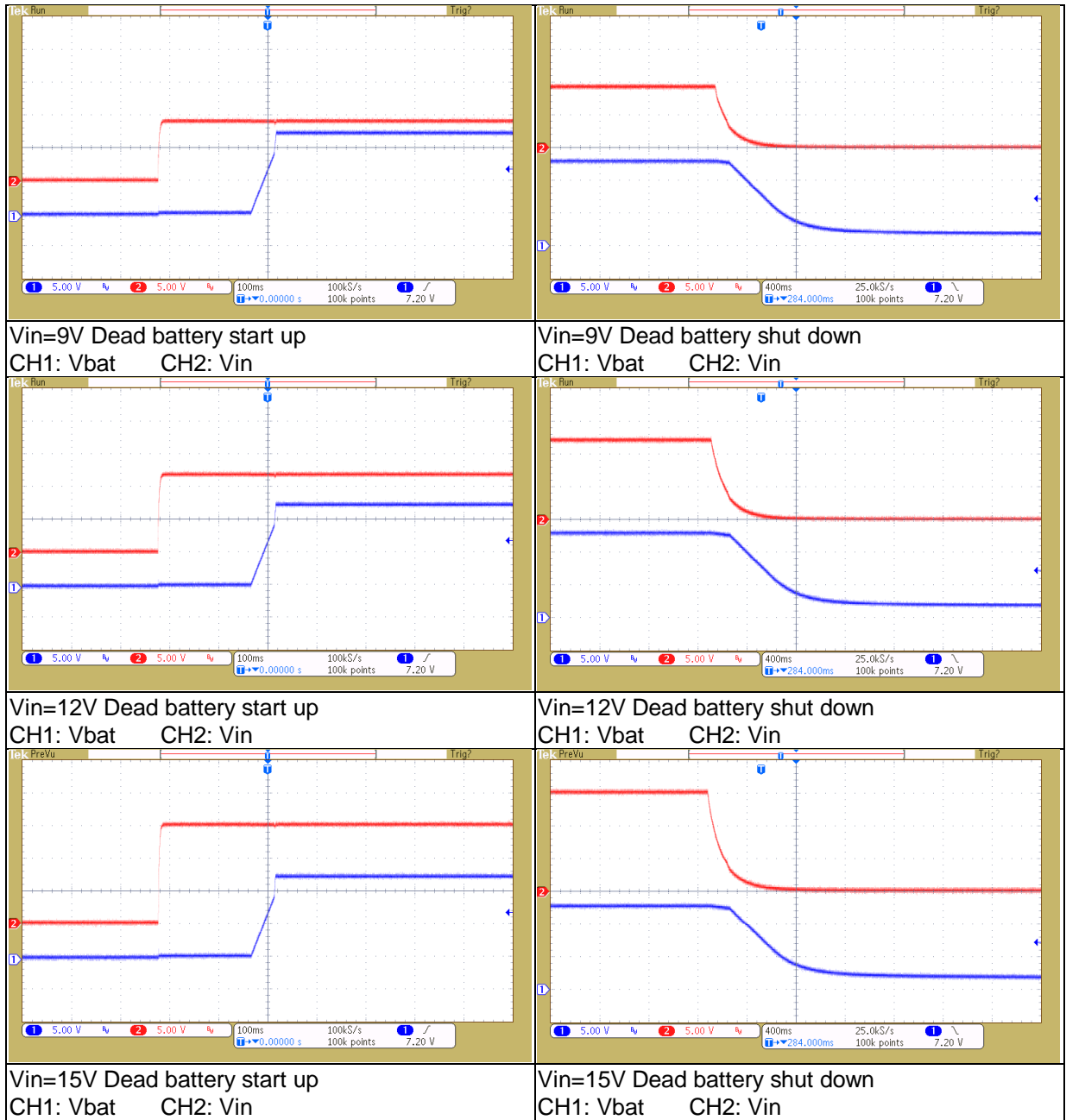
1.2 Ripple and Noise

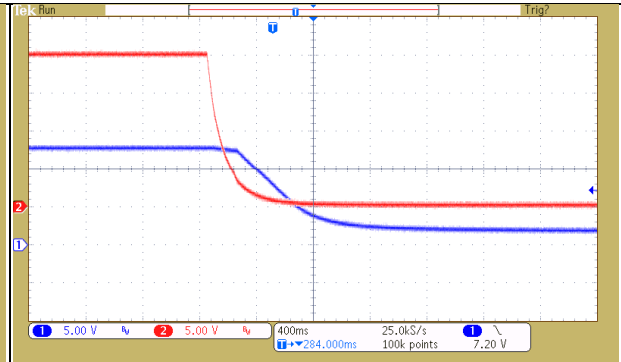
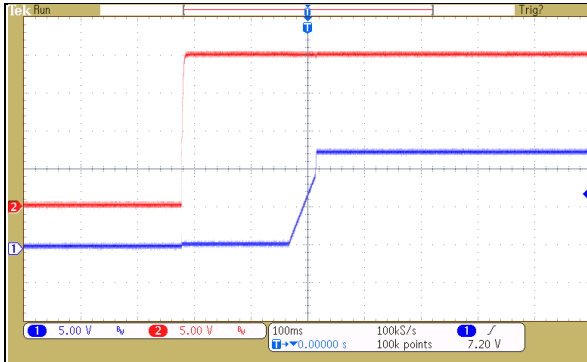




1.3 Start up and shut down

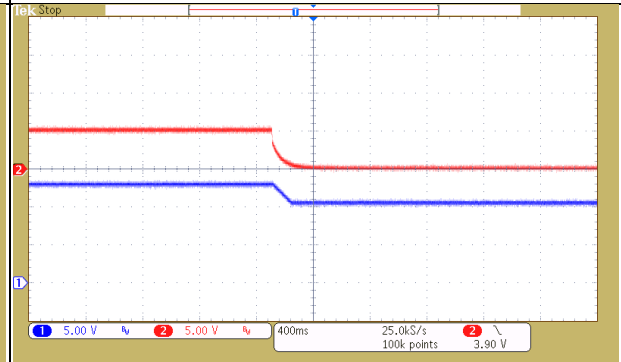
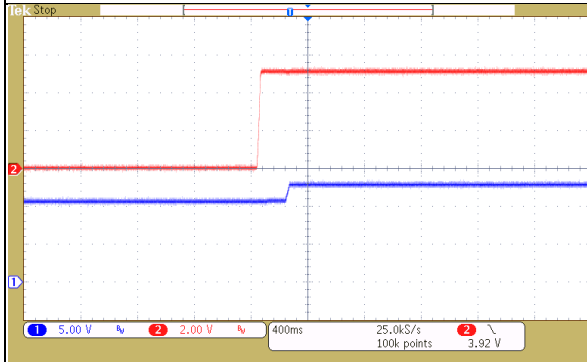






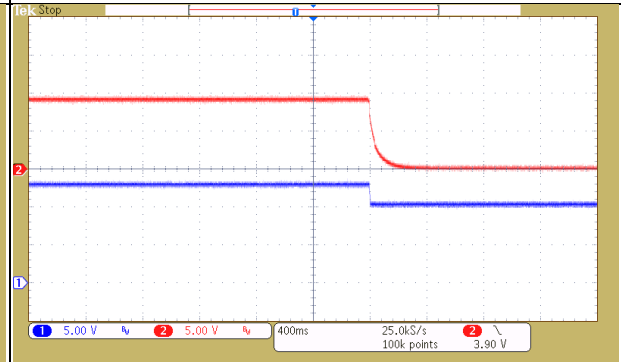
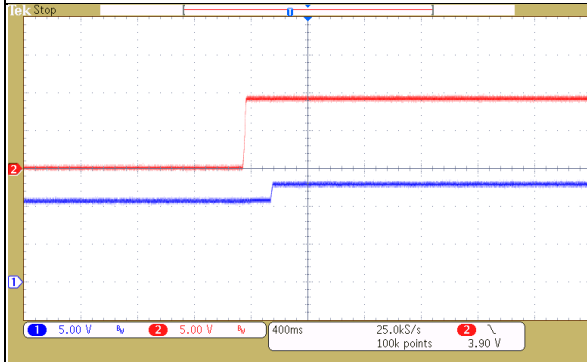
Vin=20V Dead battery start up
CH1: Vbat CH2: Vin

Vin=20V Dead battery shut down
CH1: Vbat CH2: Vin



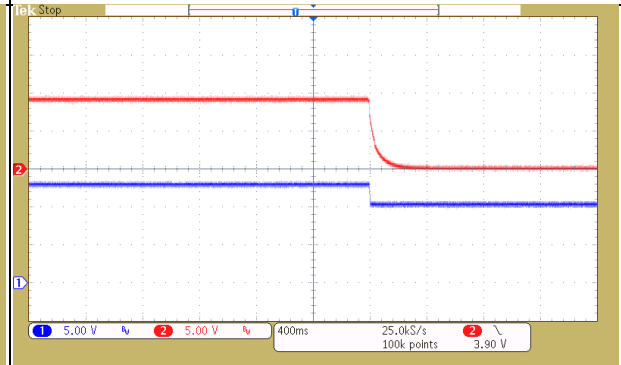
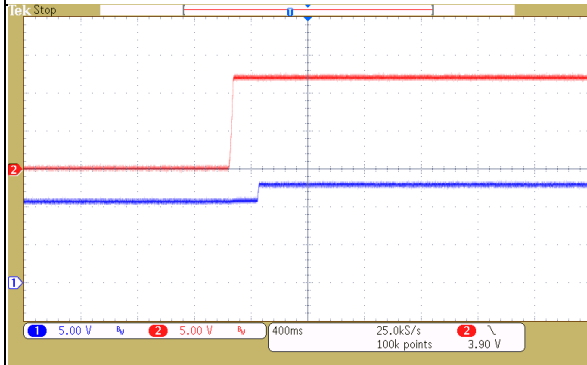
Vin=5V start up
CH1: Vbat CH2: Vin

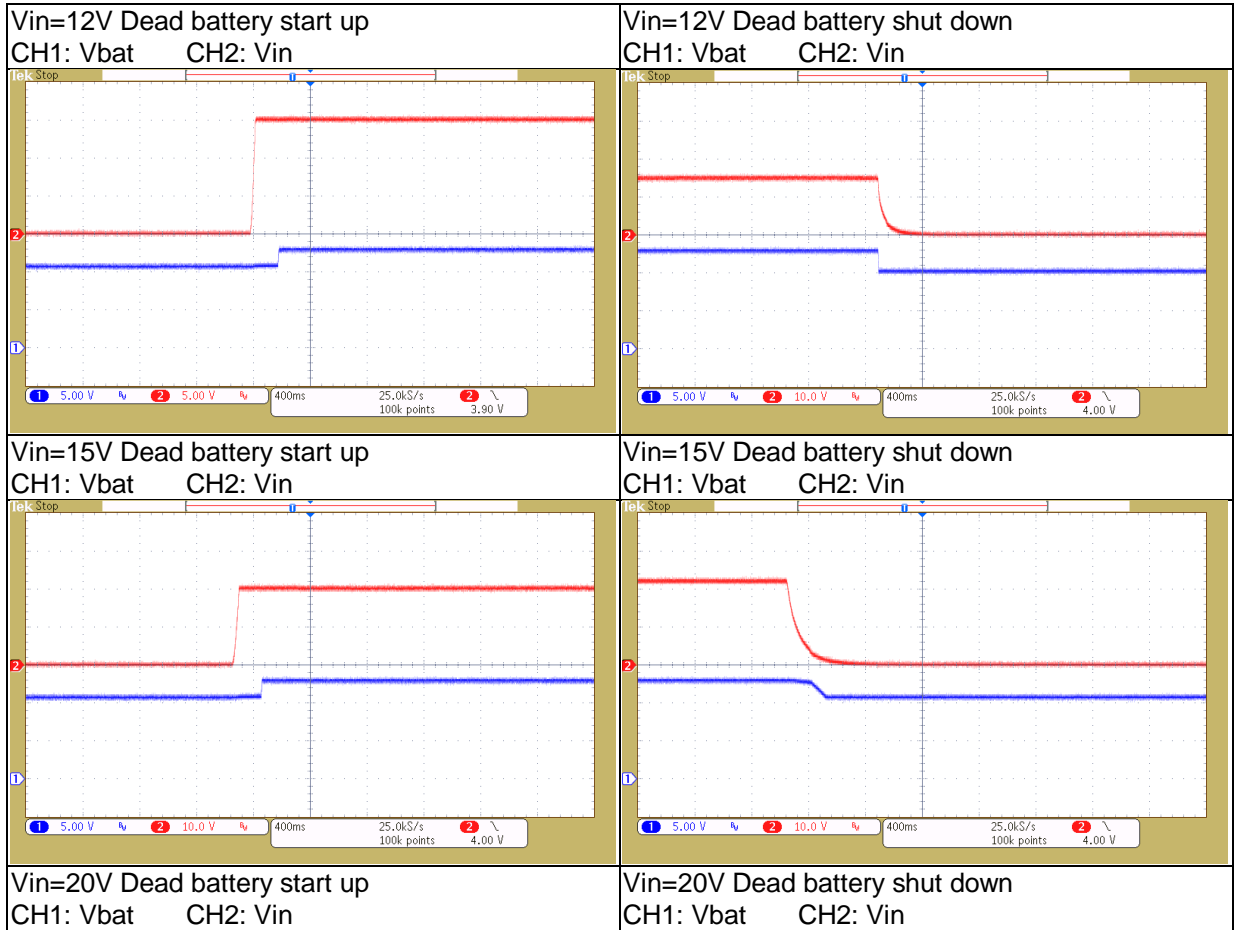
Vin=5V shut down
CH1: Vbat CH2: Vin



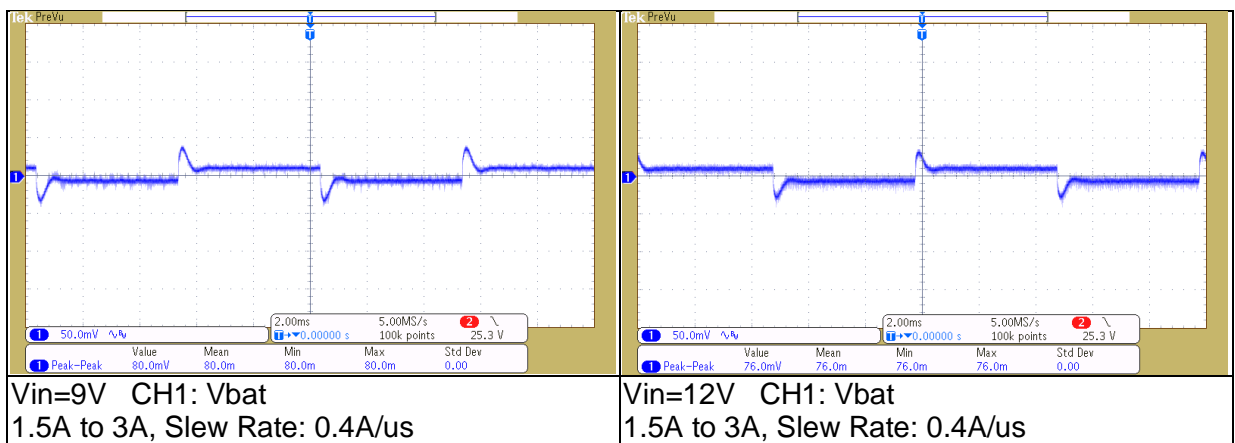
Vin=9V start up
CH1: Vbat CH2: Vin

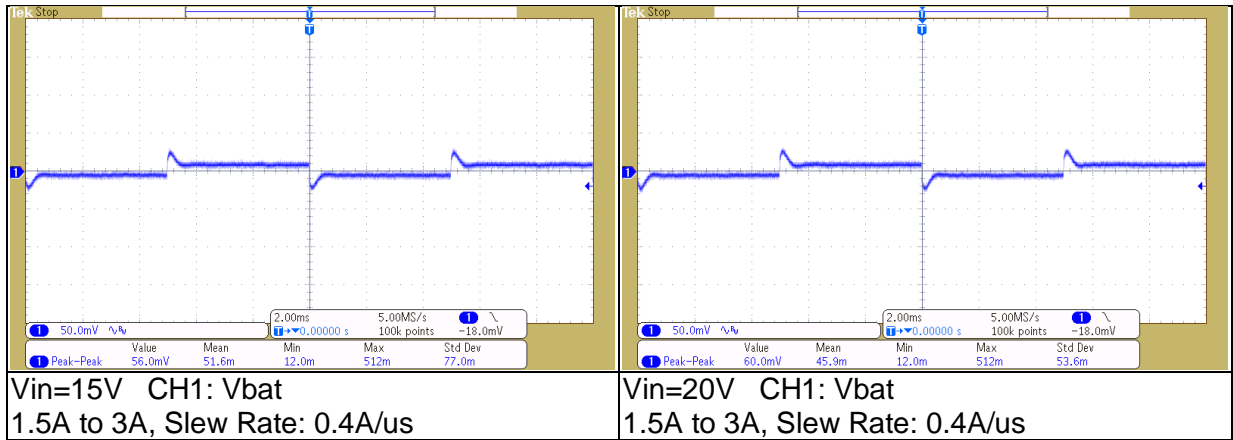
Vin=9V shut down
CH1: Vbat CH2: Vin





1.4 Load Transient



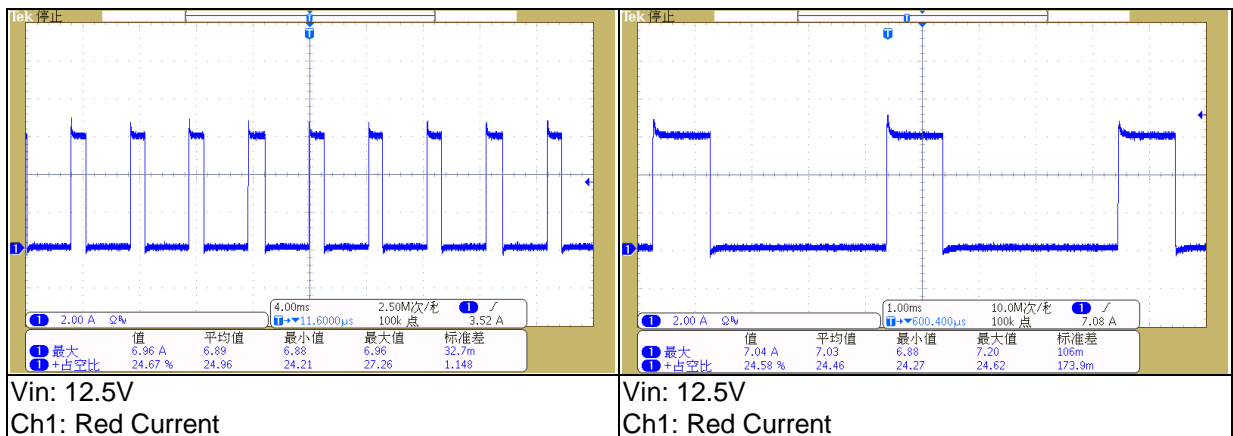


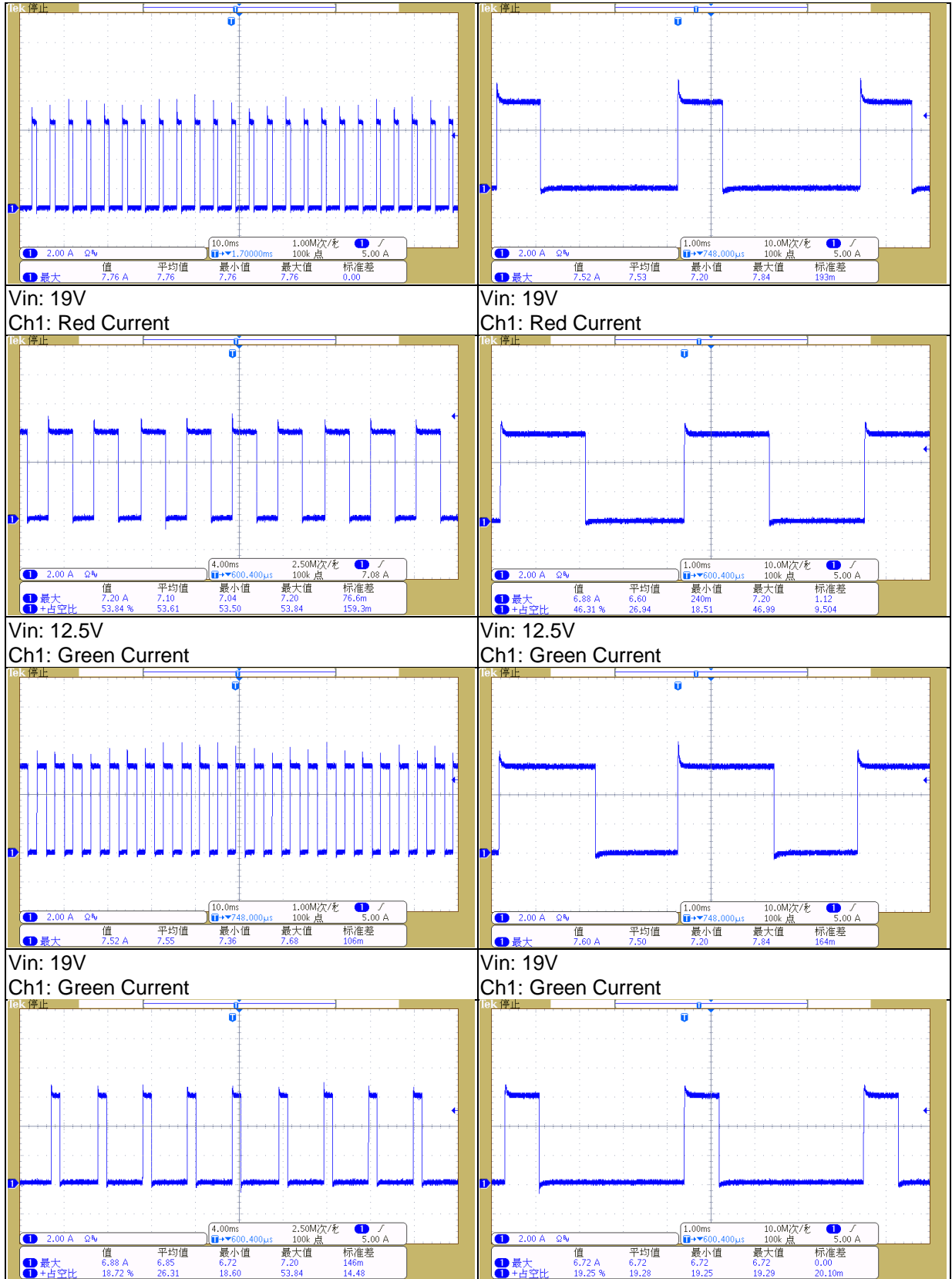
2. DLPA3000 LED DRIVER TEST RESULT

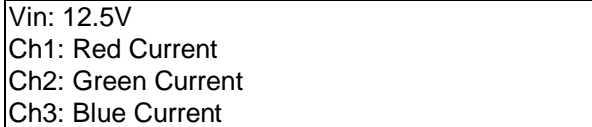
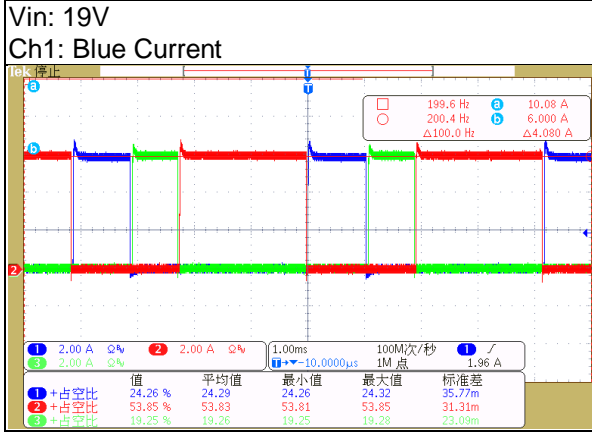
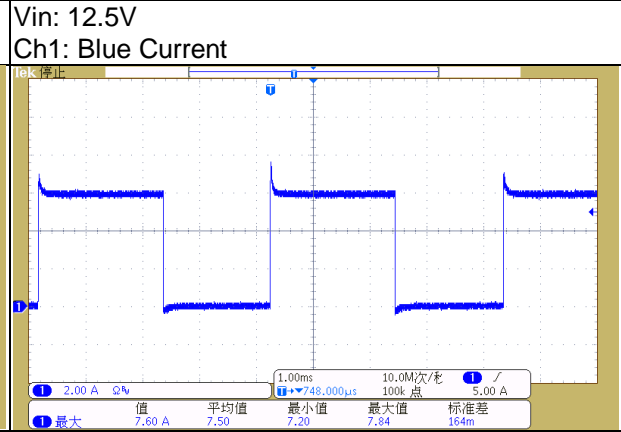
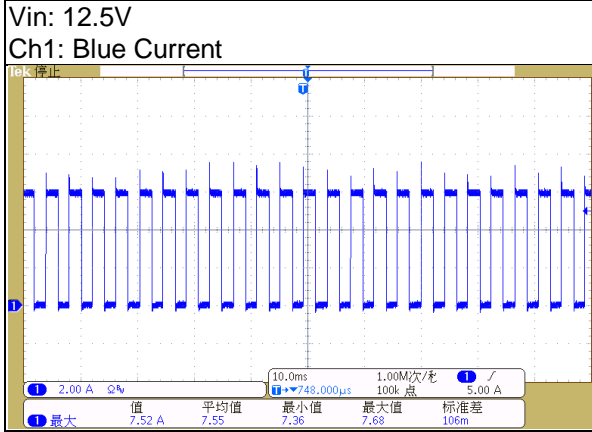
2.1 Efficiency

Vin(V)	Iin(A)	Vred(V)	Dred	Vgreen(V)	Dgreen	Vblue(V)	Dblue	Iled(A)	Effi.(%)
9.21	2.97	3.58	0.2426	3.40	0.5385	3.50	0.1925	6	74.0
12.63	2.17	3.58	0.2426	3.40	0.5385	3.50	0.1925	6	73.8
14.01	1.97	3.58	0.2426	3.40	0.5385	3.50	0.1925	6	73.5
19.02	1.47	3.58	0.2426	3.40	0.5385	3.50	0.1925	6	72.4
12.61	1.832	3.40	0.2427	3.45	0.5392	3.45	0.1870	5	72.1
18.94	1.26	3.40	0.243	3.45	0.5346	3.45	0.1952	5	70.1

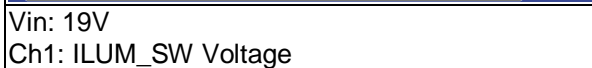
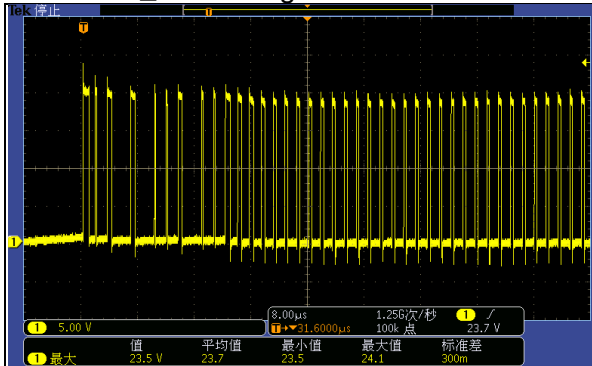
2.2 LED current waveform







2.3 ILLUM_SW Voltage



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