PMP11594 Test Results

1. INPUT CHARACTERISTICS

1.1 Efficiency versus output current

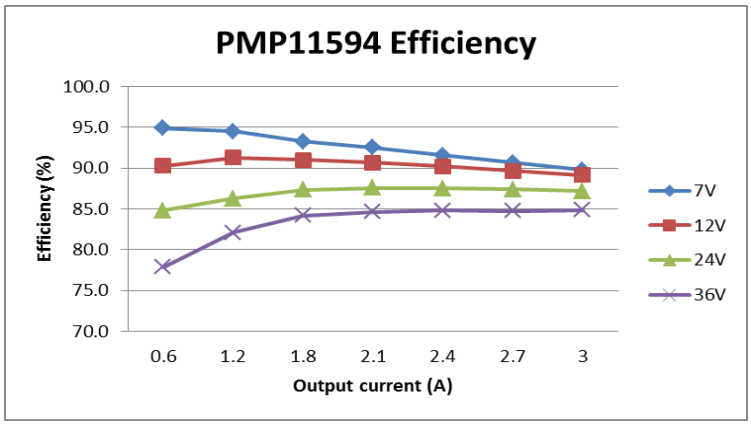
Note: Efficiency is tested on USB end

Vin(V)	Iin(mA)	Vo(V)	Io(A)	Effi.(%)
7.06	0.452	5.021	0.604	94.9
7.00	0.909	4.999	1.203	94.5
6.94	1.385	4.975	1.802	93.3
7.01	1.608	4.962	2.103	92.6
6.98	1.859	4.944	2.403	91.6
6.94	2.115	4.929	2.702	90.7
7.01	2.343	4.913	3.003	89.8

Vin(V)	Iin(mA)	Vo(V)	Io(A)	Effi.(%)
11.98	0.28	5.018	0.604	90.3
11.95	0.5513	4.999	1.203	91.3
11.91	0.827	4.976	1.802	91.0
11.99	0.96	4.962	2.103	90.7
11.97	1.1	4.948	2.402	90.2
11.96	1.243	4.933	2.702	89.7
11.94	1.387	4.917	3.003	89.2

Vin(V)	Iin(mA)	Vo(V)	Io(A)	Effi.(%)
24.01	0.149	5.023	0.604	84.8
23.99	0.291	5.007	1.203	86.3
23.97	0.429	4.984	1.802	87.3
23.96	0.498	4.970	2.103	87.6
23.95	0.568	4.955	2.403	87.5
23.94	0.638	4.941	2.702	87.4
23.94	0.691	4.935	2.923	87.2

Vin(V)	Iin(mA)	Vo(V)	Io(A)	Effi.(%)
36.01	0.109	5.041	0.604	77.9
35.99	0.204	5.017	1.203	82.1
35.98	0.297	4.994	1.802	84.2
35.98	0.344	4.981	2.103	84.6
35.97	0.391	4.967	2.402	84.8
35.96	0.439	4.949	2.702	84.8
35.96	0.486	4.941	3.003	84.9



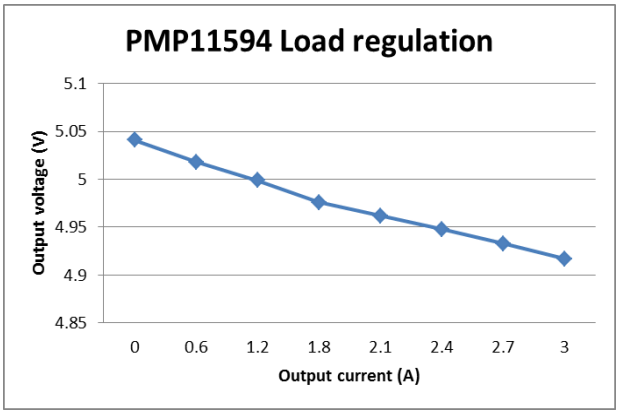
2. OUTPUT CHARACTERISTICS

Note: Load / Line Regulation, ripple and noise, start up and shut down, Load Transient are all tested on USB end

2.1 Load Regulation

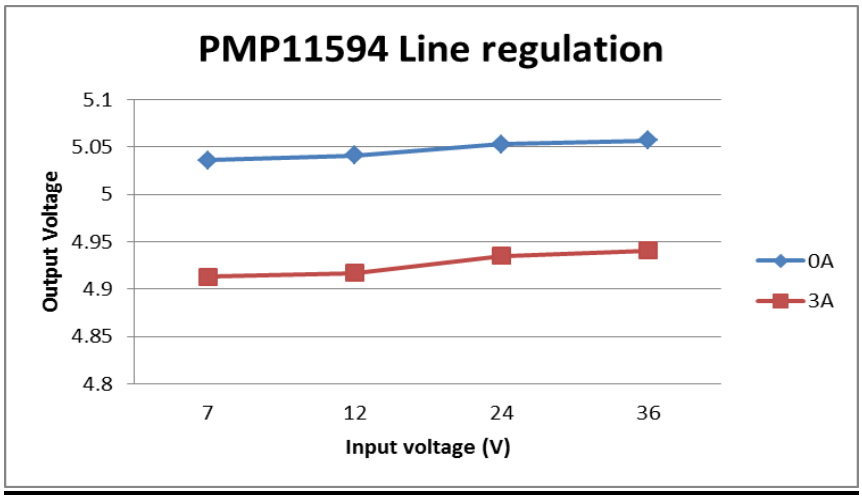
Vin=12V

Io (A)	0	0.6	1.2	1.8	2.1	2.4	2.7	3
Vo (V)	5.041	5.018	4.999	4.976	4.962	4.948	4.933	4.917

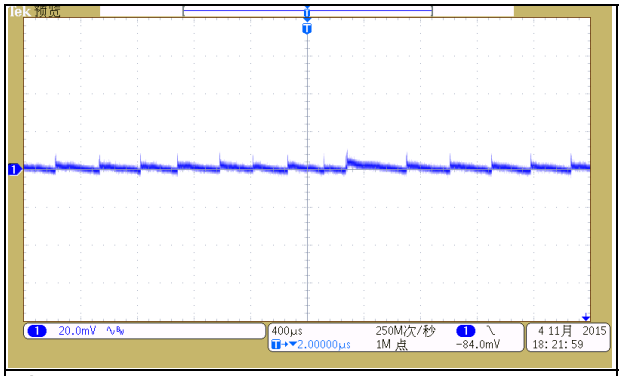


2.2 Line Regulation

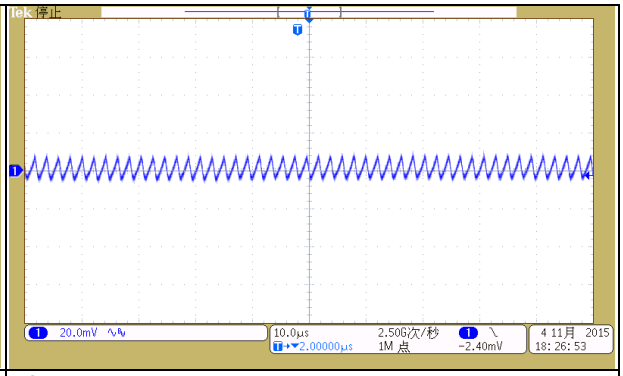
Vin (V)	Vo (V)	
	Io=0A	Io=3A
7	5.036	4.913
12	5.041	4.917
24	5.053	4.935
36	5.057	4.941



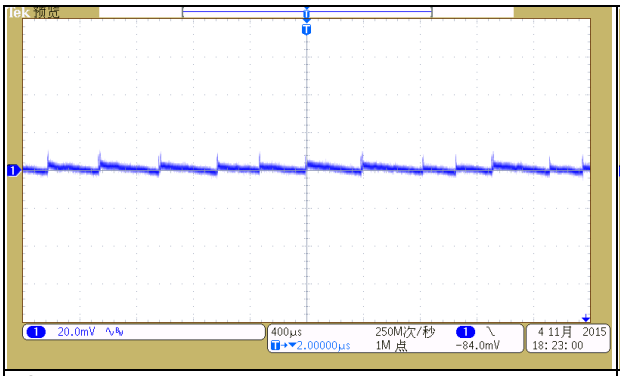
2.3 Ripple and noise



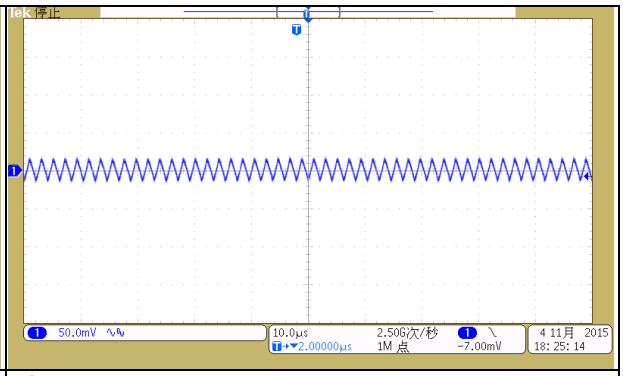
Vin=7V Io=0A
Ch1: Vout Ripple



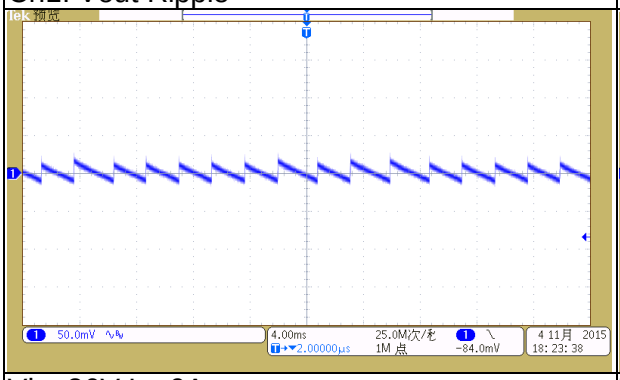
Vin=7V Io=3A
Ch1: Vout Ripple



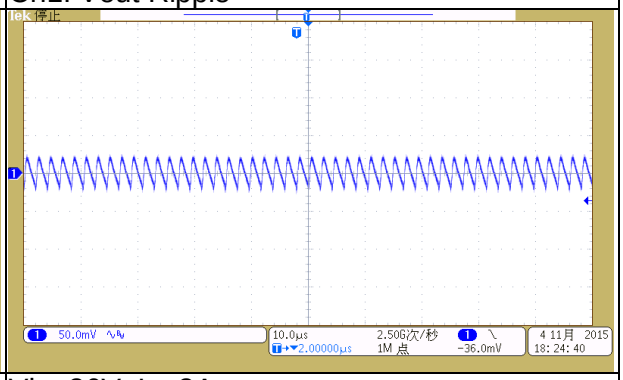
Vin=12V Io=0A
Ch1: Vout Ripple



Vin=12V Io=3A
Ch1: Vout Ripple

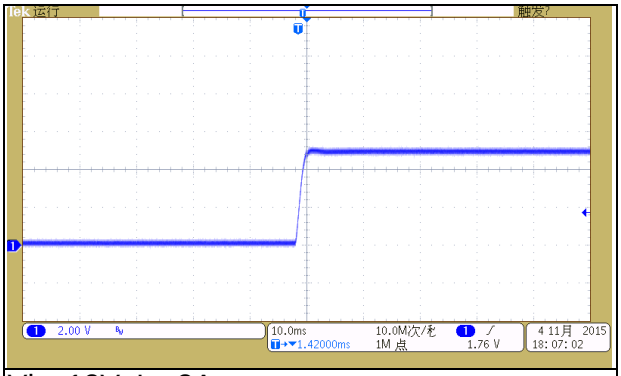


Vin=36V Io=0A
Ch1: Vout Ripple



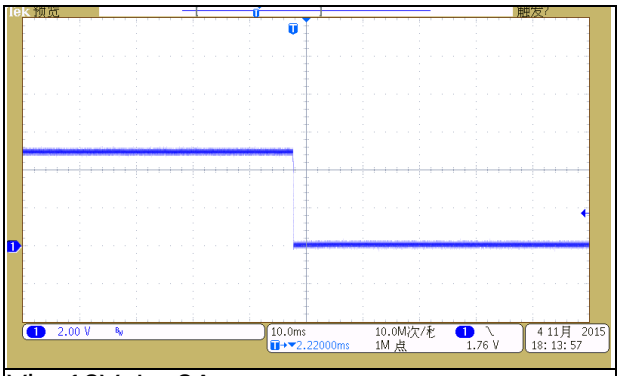
Vin=36V Io=3A
Ch1: Vout Ripple

2.4 Start up



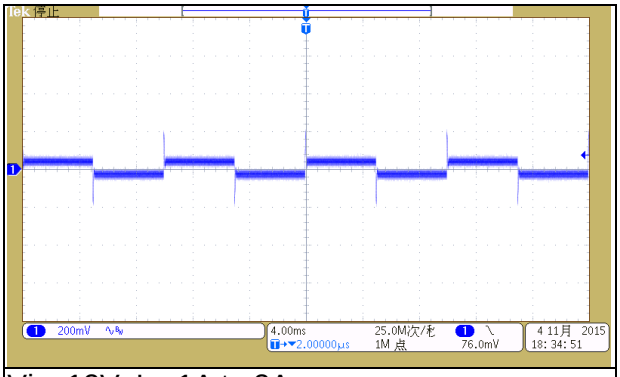
Vin=12V Io=3A
Ch1: Vout

2.5 Shut down



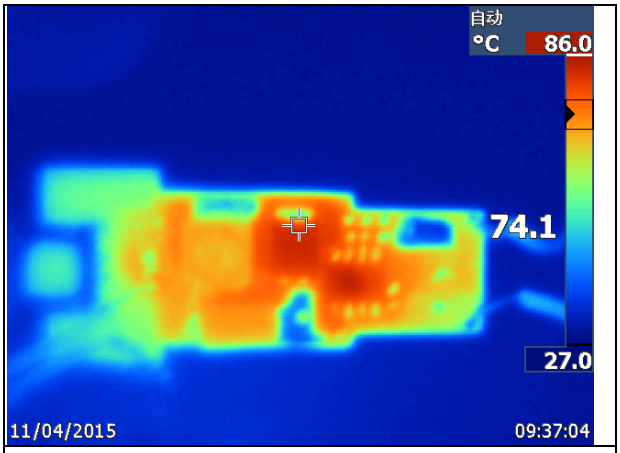
Vin=12V Io=3A
Ch1: Vout

2.6 Load Transient



Vin=12V Io=1A to 3A
Ch1: Vout

3. Thermal



Vin=12V Io=3A
Room ambient
Top View

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