

## PMP40268 Test Results

### 1. Efficiency

Test at type-C USB board end

Vin(V)	Iin(mA)	VBUS(V)	Io(A)	Effi.(%)
6.98	0.375	5.090	0.494	96.1
6.93	0.772	5.191	0.993	96.4
7.02	1.176	5.293	1.491	95.6
6.96	1.631	5.395	1.989	94.5
6.96	2.096	5.492	2.487	93.7
6.89	2.630	5.590	3.002	92.5

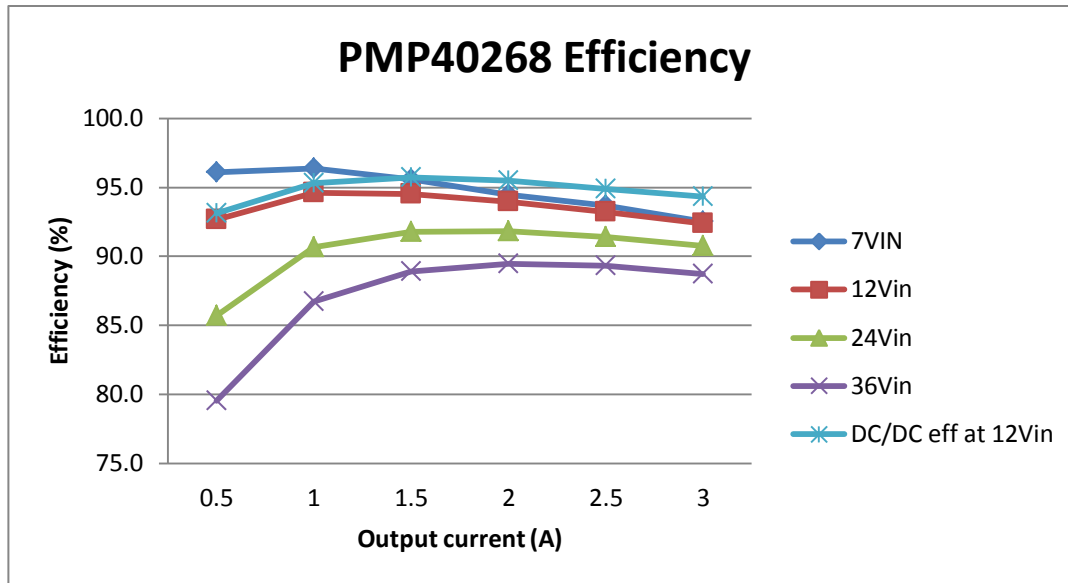
Vin(V)	Iin(mA)	VBUS(V)	Io(A)	Effi.(%)
11.99	0.226	5.086	0.494	92.7
11.96	0.455	5.191	0.993	94.6
12.03	0.694	5.290	1.491	94.5
12.00	0.951	5.391	1.989	94.0
11.97	1.224	5.492	2.487	93.2
11.93	1.514	5.590	2.985	92.4

Vin(V)	Iin(mA)	VBUS(V)	Io(A)	Effi.(%)
24.00	0.122	5.086	0.494	85.7
23.99	0.237	5.188	0.993	90.6
23.97	0.359	5.289	1.491	91.8
23.96	0.488	5.391	1.992	91.8
23.94	0.627	5.488	2.501	91.4
23.92	0.771	5.586	2.998	90.8

Vin(V)	Iin(mA)	VBUS(V)	Io(A)	Effi.(%)
35.98	0.088	5.082	0.494	79.5
35.97	0.165	5.184	0.993	86.7
35.95	0.247	5.285	1.491	88.9
35.94	0.333	5.387	1.989	89.5
35.92	0.425	5.484	2.487	89.3
35.91	0.525	5.580	2.998	88.7

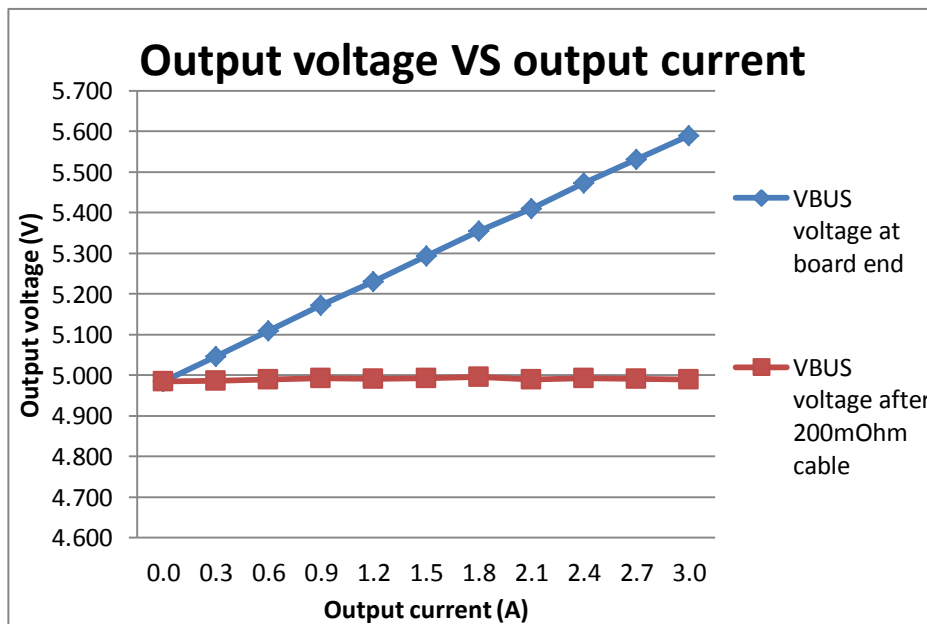
DC/DC efficiency

Vin(V)	Iin(mA)	Vo(V)	Io(A)	Effi.(%)
11.96	0.227	5.109	0.494	93.1
11.94	0.456	5.230	0.993	95.3
11.91	0.701	5.355	1.491	95.7
11.88	0.961	5.477	1.989	95.5
12.04	1.217	5.590	2.487	94.9
12.01	1.504	5.711	2.985	94.3

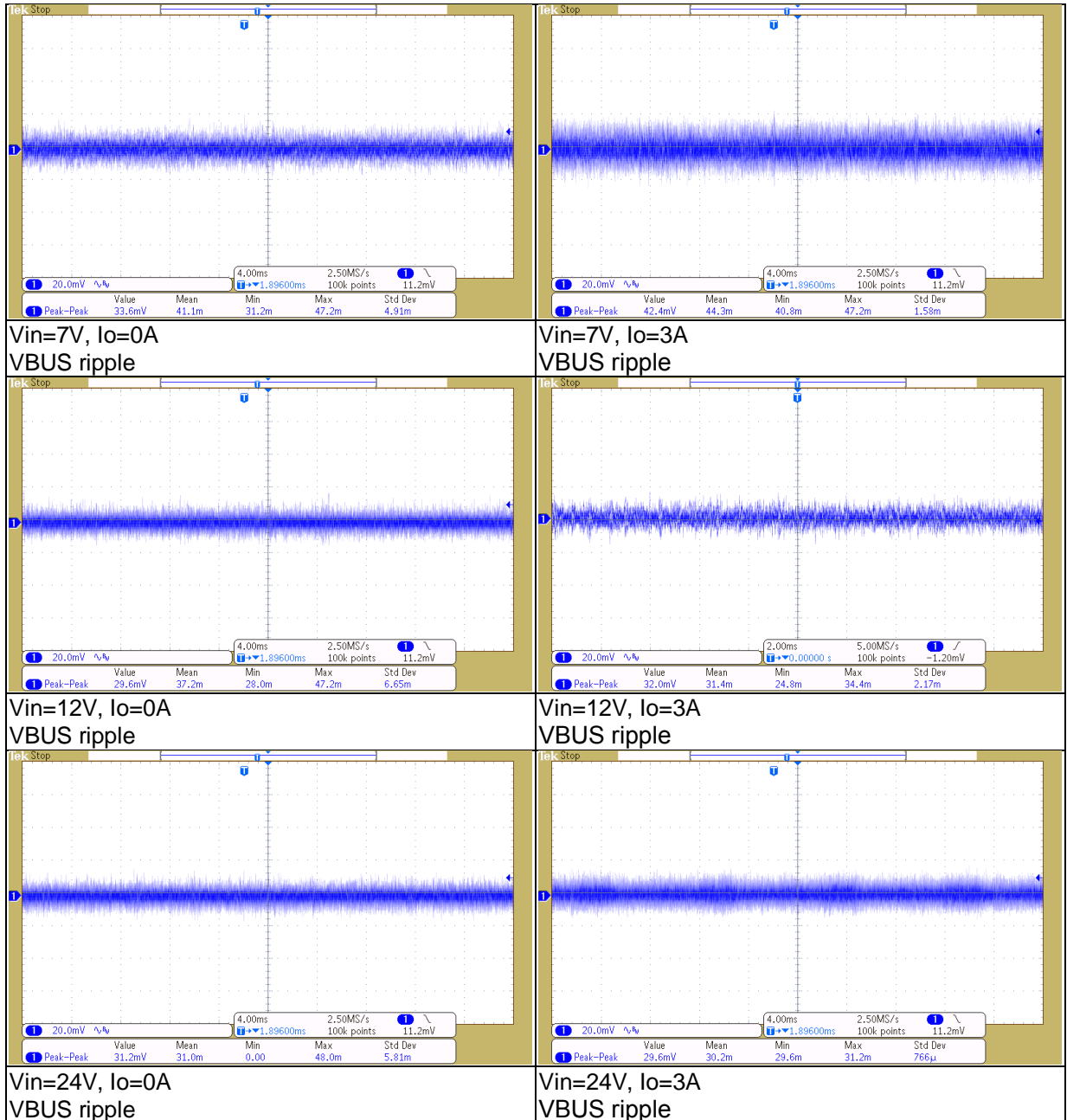


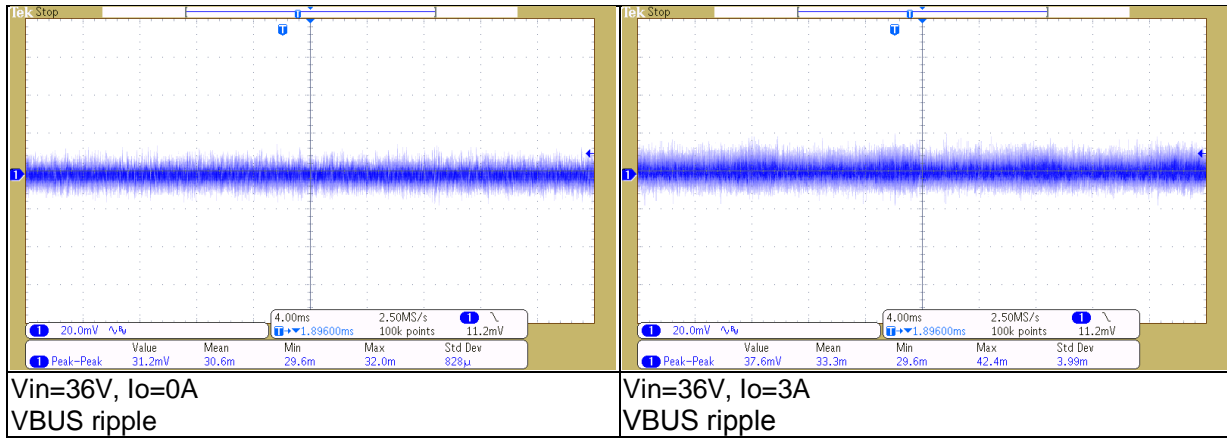
## 2. Cable compensation over output current

Vin=12V

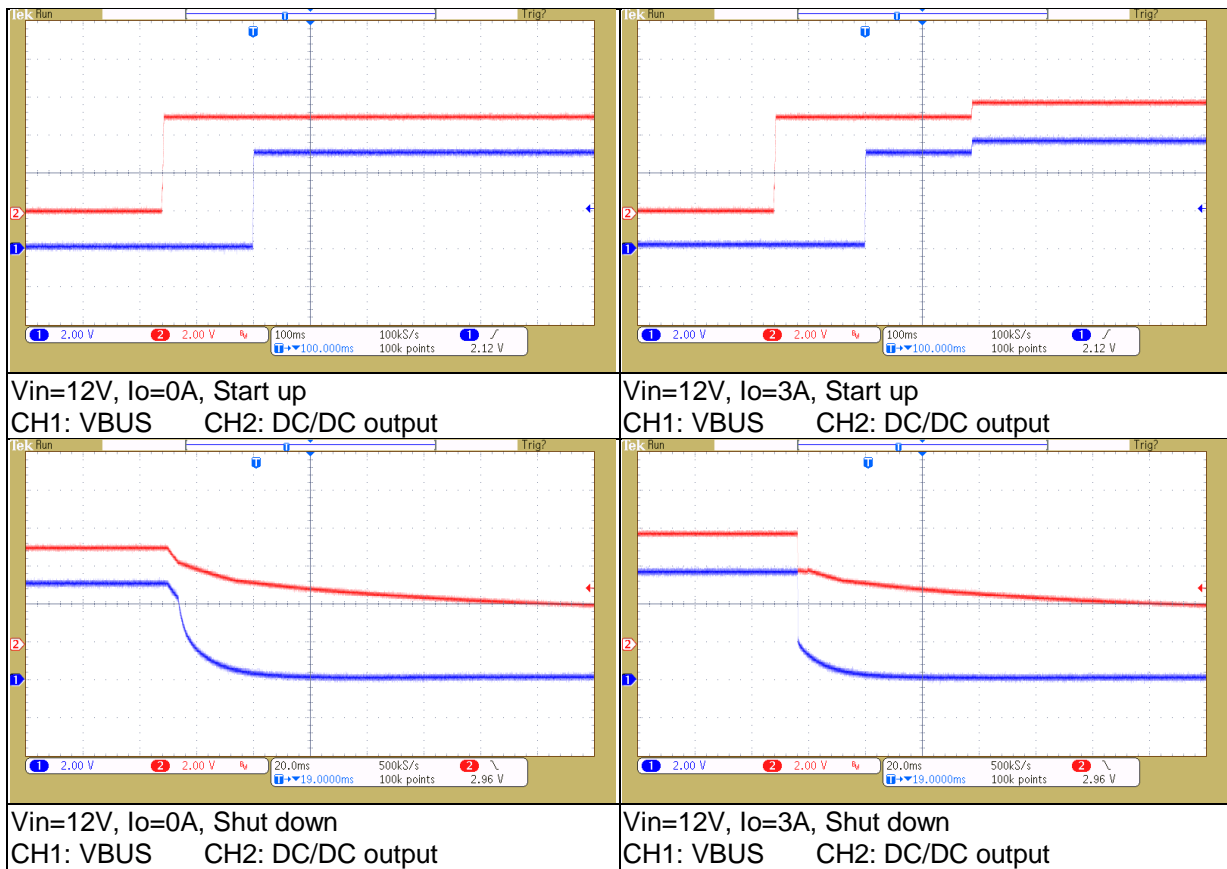


### 3. Ripple and noise

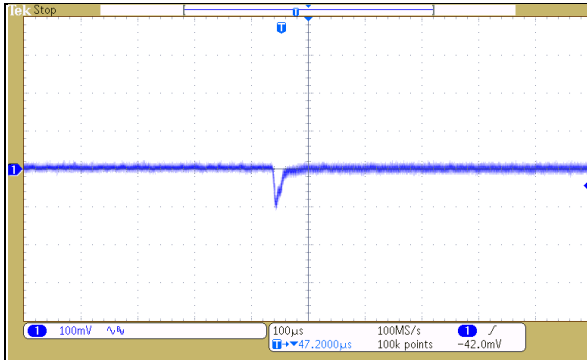




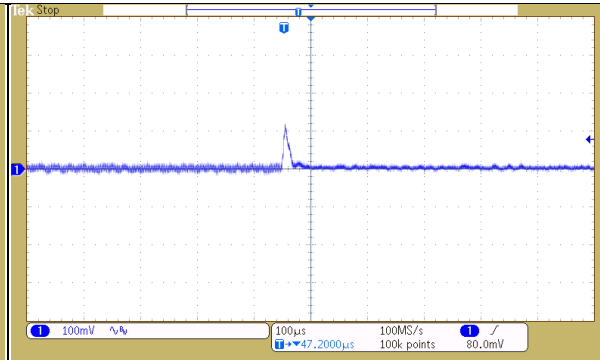
#### 4. Start up and Shut down



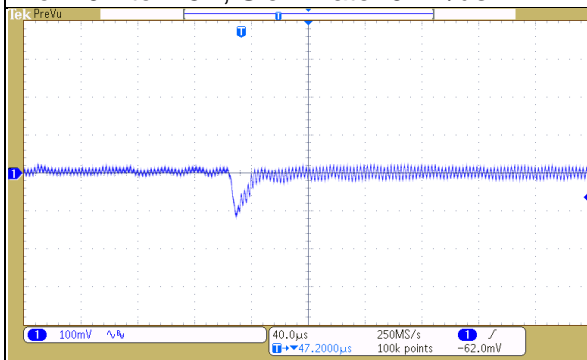
#### 5. Load Transient



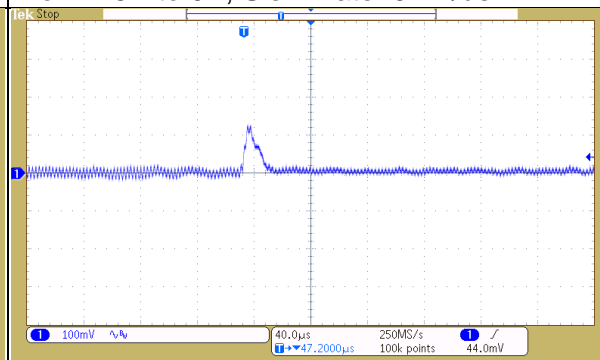
Vin=12V CH1: DC/DC output  
Load transient without cable compensation,  
From 0A to 1.5A, Slew Rate: 0.4A/µs



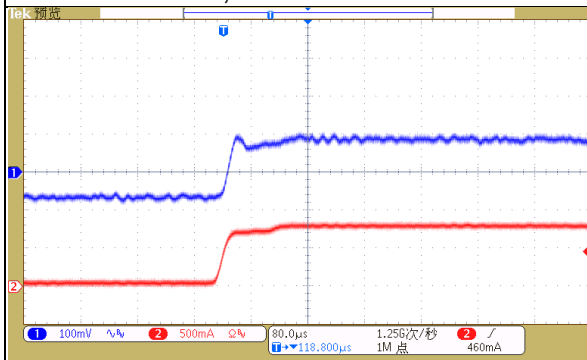
Vin=12V CH1: DC/DC output  
Load transient without cable compensation,  
From 1.5A to 0A, Slew Rate: 0.4A/µs



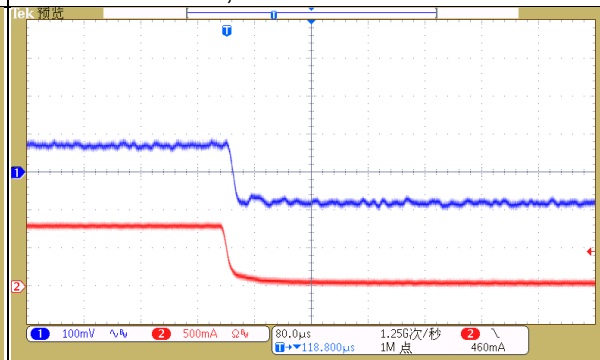
Vin=12V CH1: DC/DC output  
Load transient without cable compensation,  
From 1.5A to 3A, Slew Rate: 0.4A/µs



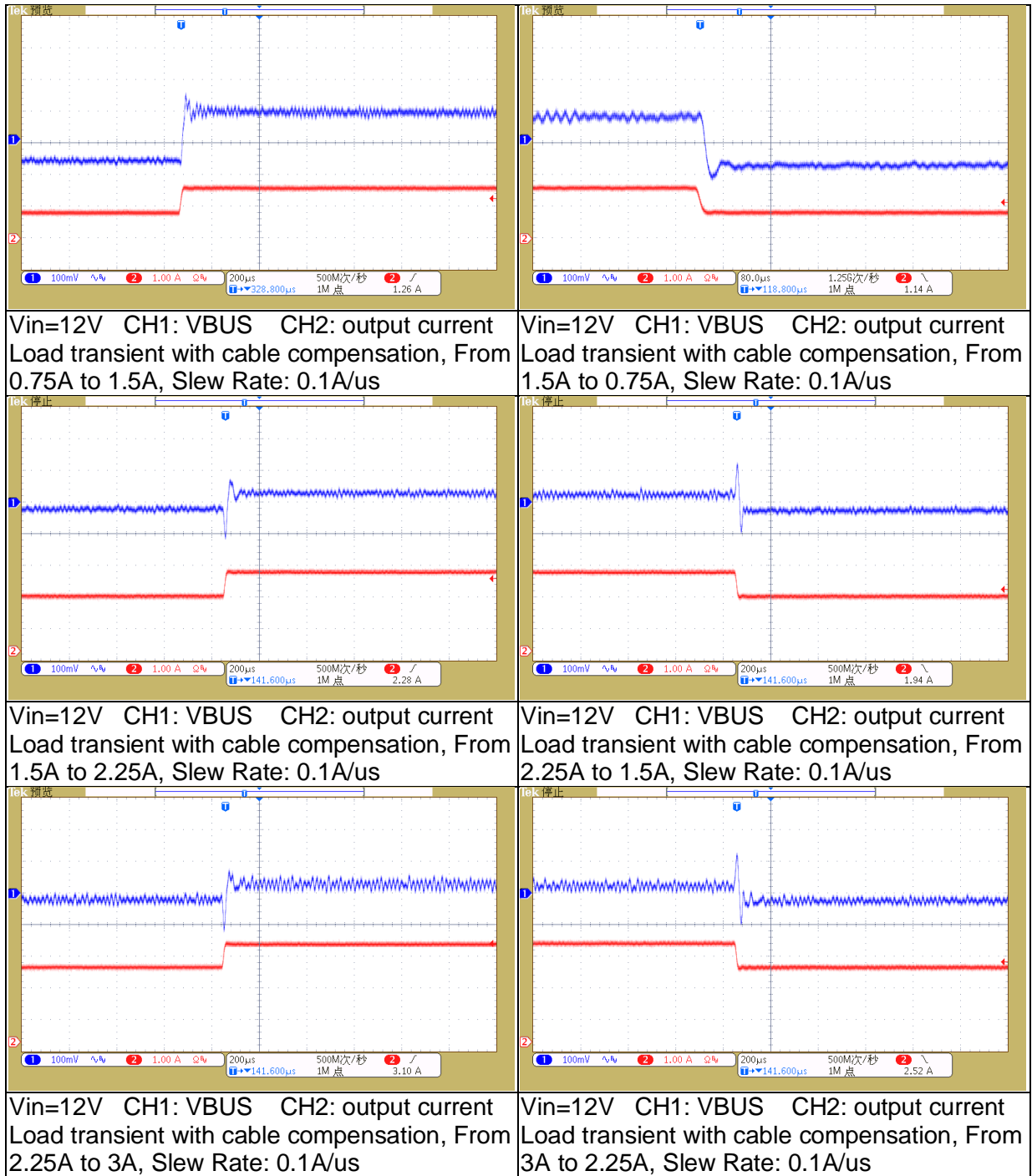
Vin=12V CH1: DC/DC output  
Load transient without cable compensation,  
From 3A to 1.5A, Slew Rate: 0.4A/µs



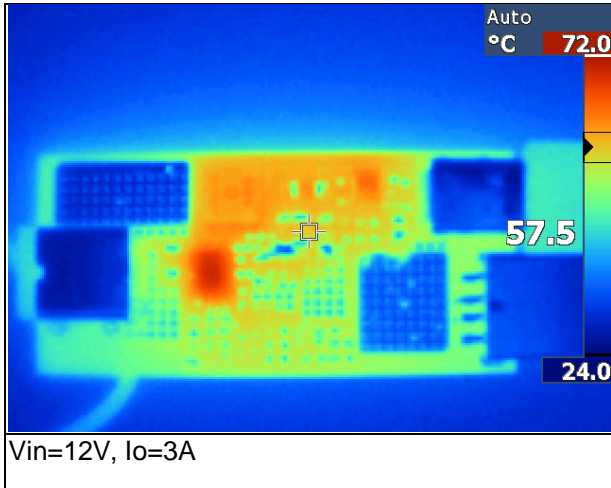
Vin=12V CH1: VBUS CH2: output current  
Load transient with cable compensation, From  
0A to 0.75A, Slew Rate: 0.1A/µs



Vin=12V CH1: VBUS CH2: output current  
Load transient with cable compensation, From  
0.75A to 0A, Slew Rate: 0.1A/µs



## 6. Thermal



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