

PMP4499 Test Results

1. INPUT CHARACTERISTICS

1.1 Efficiency versus output current

Vin=8.3V

Vin(V)	Iin(mA)	Vo(V)	Io(A)	Effi.(%)
8.356	0.4194	1.0022	3	85.8
8.305	0.81	1.002	6	89.4
8.252	1.213	1.0018	9	90.1
8.299	1.6132	1.0016	12	89.8
8.342	2.0228	1.0013	15	89.0
8.284	2.469	1.001	18	88.1
8.33	2.899	1.0006	21	87.0
8.372	3.34	1.0001	24	85.8
8.313	3.84	0.9996	27	84.5
8.262	4.365	0.9988	30	83.1

Vin=10V

Vin(V)	Iin(mA)	Vo(V)	Io(A)	Effi.(%)
9.963	0.361	1.0014	3	83.5
9.921	0.689	1.0012	6	87.9
9.978	1.016	1.0011	9	88.9
9.936	1.361	1.001	12	88.8
10.002	1.701	1.0007	15	88.2
9.957	2.07	1.0005	18	87.4
9.91	2.453	1.0001	21	86.4
9.858	2.852	0.9997	24	85.3
9.91	3.237	0.9993	27	84.1
9.957	3.635	0.999	30	82.8

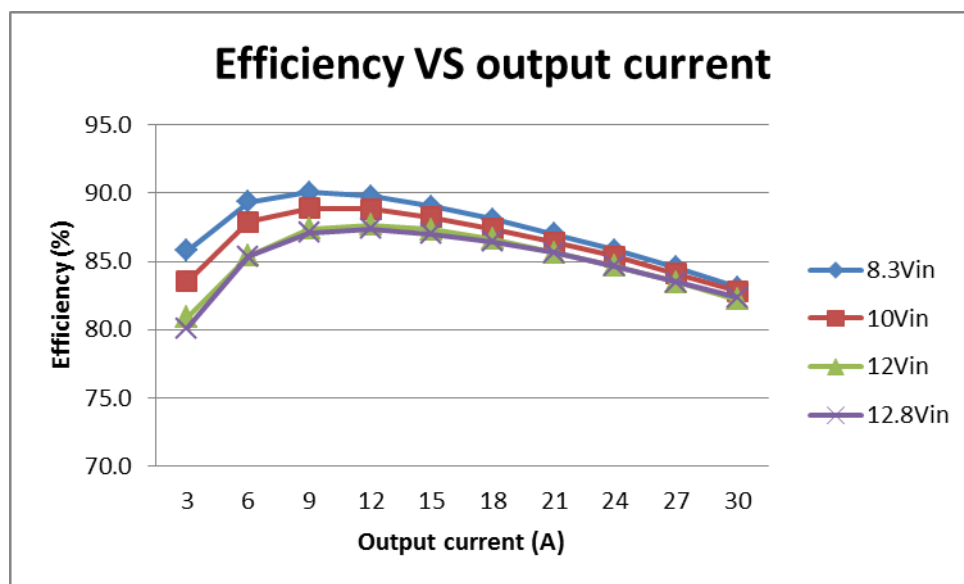
Vin=12V

Vin(V)	Iin(mA)	Vo(V)	Io(A)	Effi.(%)
11.977	0.31	1.0013	3	80.9
12.02	0.585	1.0011	6	85.4
12.004	0.859	1.001	9	87.4
11.967	1.145	1.0009	12	87.7

11.93	1.441	1.0007	15	87.3
11.891	1.748	1.0004	18	86.6
11.954	2.051	1.0001	21	85.7
11.912	2.379	0.9996	24	84.7
11.968	2.7	0.9991	27	83.5
11.924	3.055	0.9985	30	82.2

Vin=12.8V

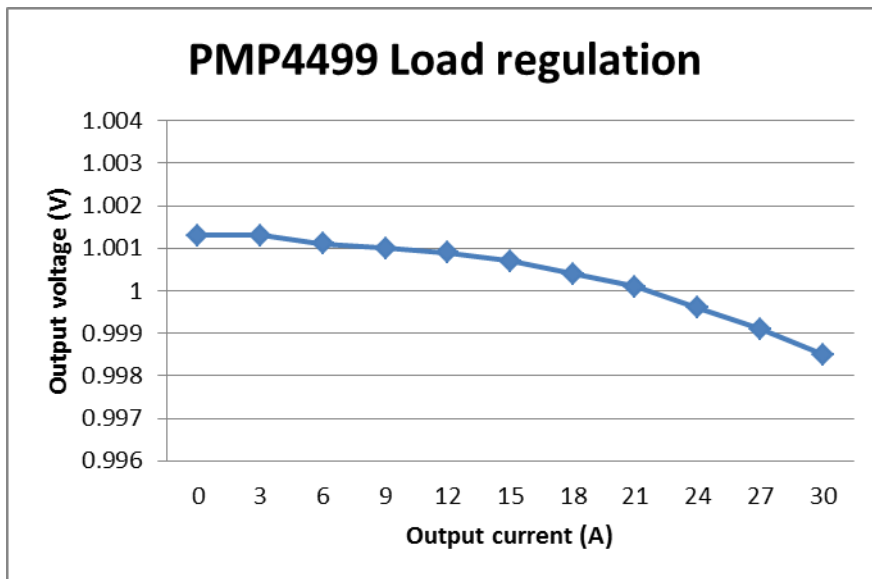
Vin(V)	Iin(mA)	Vo(V)	Io(A)	Effi.(%)
12.777	0.2973	1.014	3	80.1
12.846	0.555	1.014	6	85.3
12.812	0.818	1.014	9	87.1
12.778	1.089	1.0133	12	87.4
12.843	1.36	1.013	15	87.0
12.808	1.6466	1.013	18	86.5
12.77	1.945	1.0127	21	85.6
12.73	2.254	1.012	24	84.6
12.792	2.556	1.011	27	83.5
12.751	2.889	1.011	30	82.3



2. OUTPUT CHARACTERISTICS

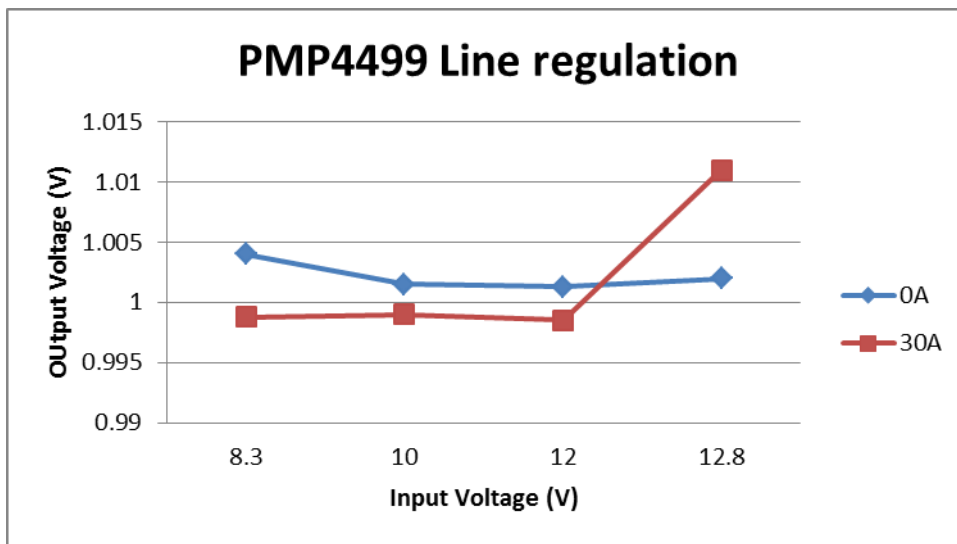
2.1 Load Regulation

Vin=12V



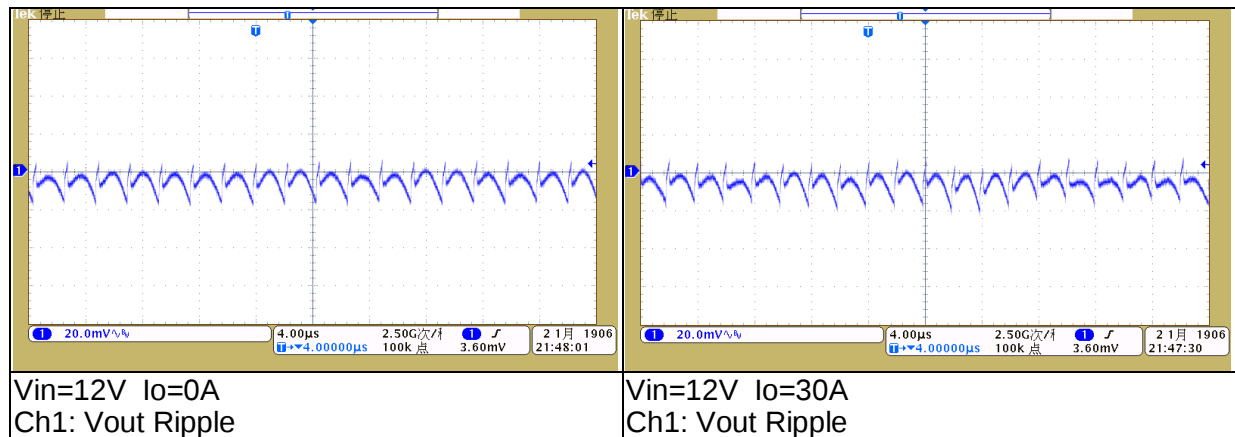
2.2 Line Regulation

Vin (V)	Vo (V)	
	Io=0A	Io=30A
8.3	1.004	0.9988
10	1.0015	0.999
12	1.0013	0.9985
12.8	1.002	1.011

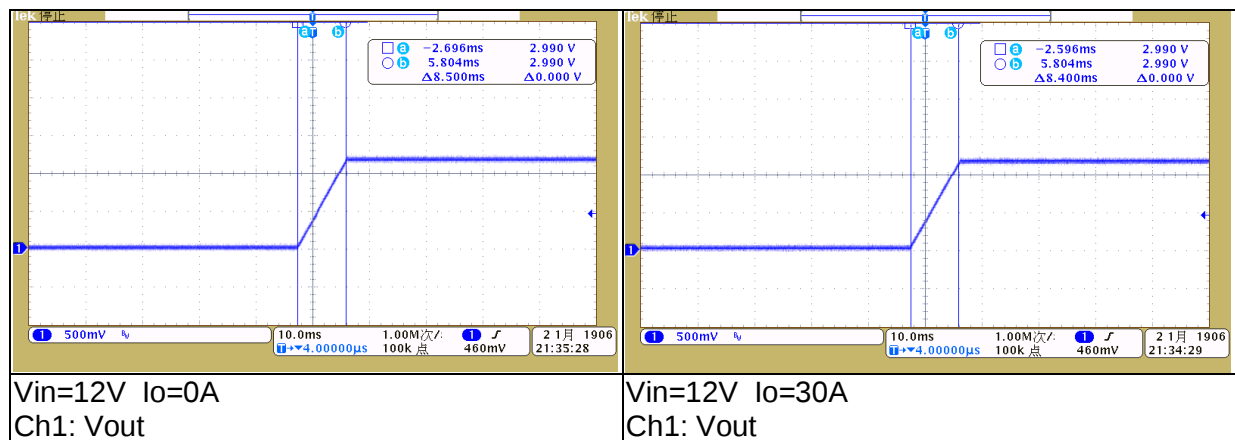


2.3 Ripple and noise

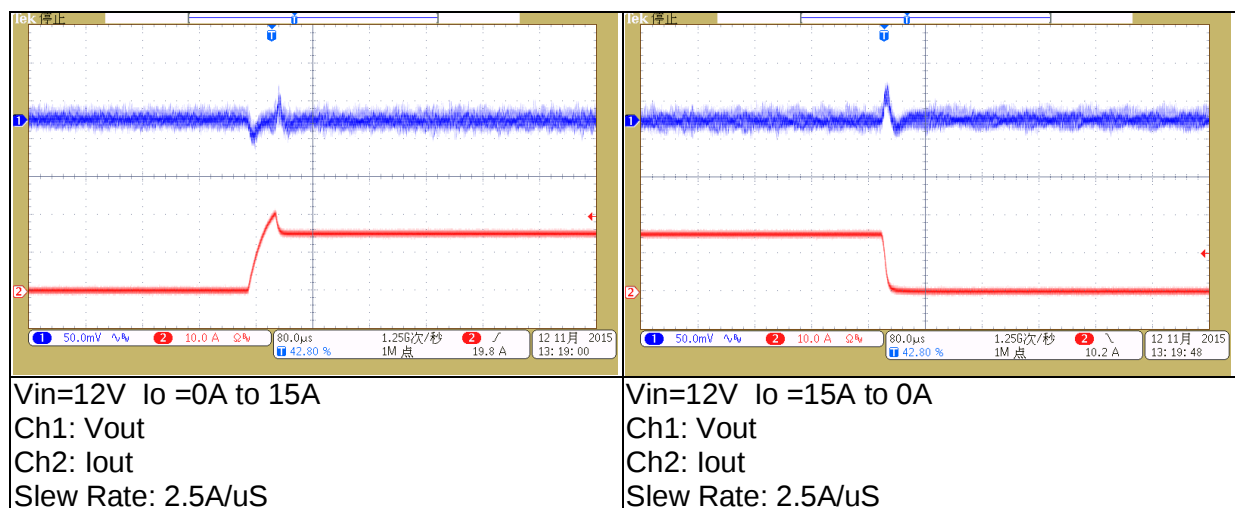
Vin=12V

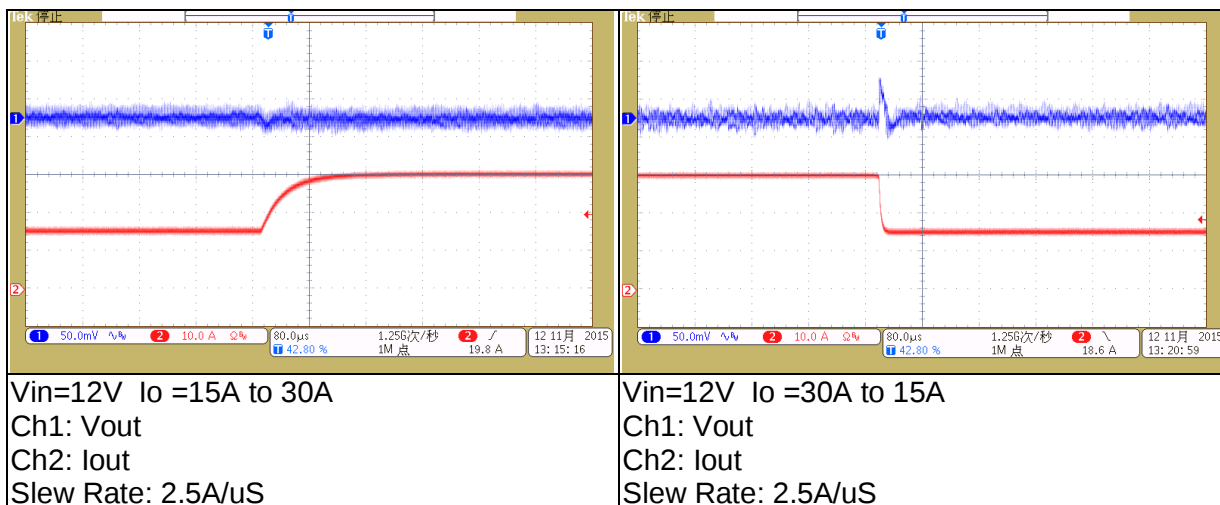


2.4 Start up

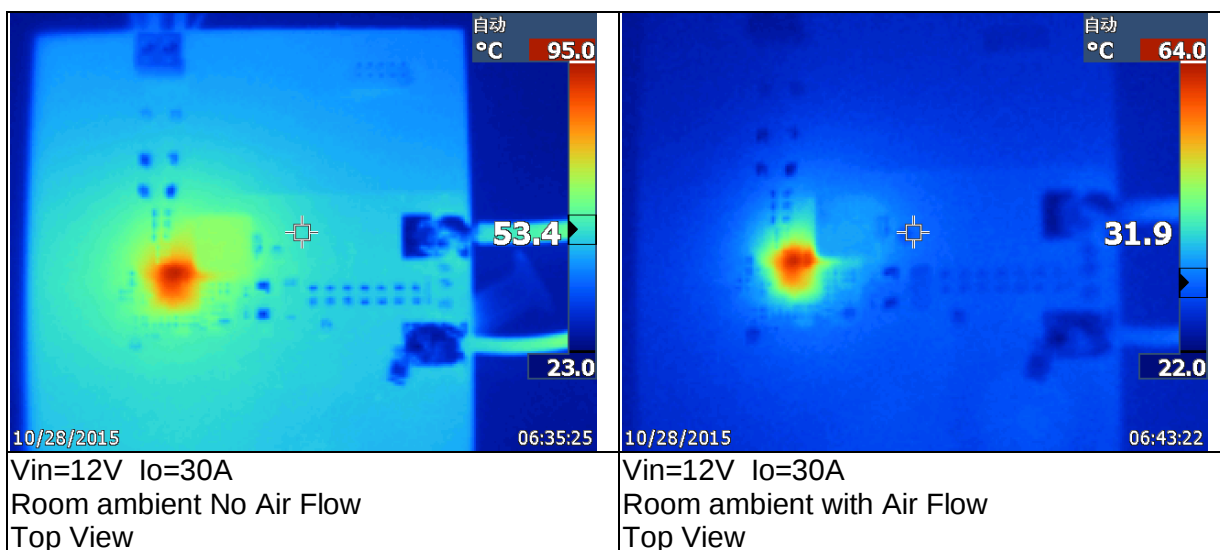


2.5 Load Transient





3. Thermal



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Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265
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