

LD5523E2 test report

Efficiency Measurement

115V					230V			
Vout(V)	Iout(A)	Pin(W)	Efficiency		Vout(V)	Iout(A)	Pin(W)	Efficiency
12.02	2.0	28.10	85.55		12.15	2.0	27.85	87.25
11.99	1.5	20.87	86.18		12.05	1.5	20.66	87.48
11.98	1.0	13.63	87.89		11.95	1.0	13.65	87.54
11.91	0.5	6.77	87.96		11.88	0.5	6.83	86.96
		Avg.	86.90%				Avg.	87.30%
11.95	0.2	2.78	85.97%		11.92	0.2	2.89	82.49

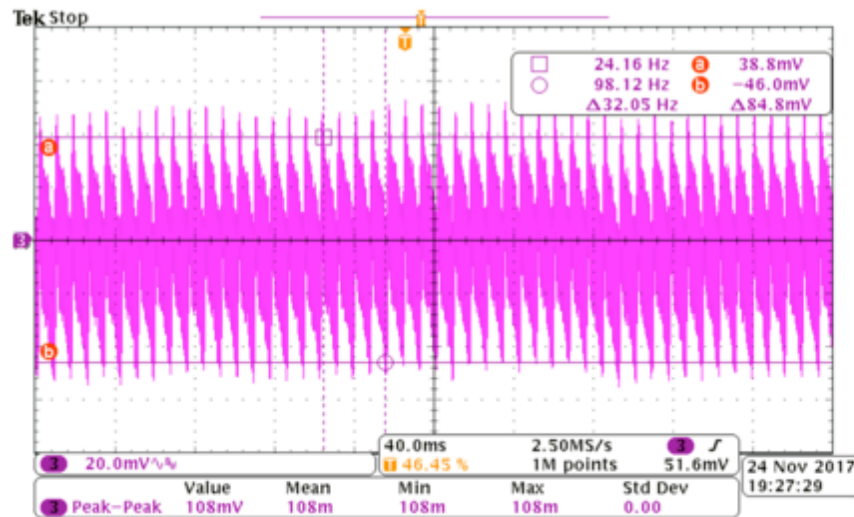
Power saving 64mW@230Vac

- NOTE : CoC V5 Tier-2 spec: 12V Avg. Eff. >86.8%, 10% Eff. > 76.20%
- NOTE : 1.5M /20AWG, NTC 5R/3A

Output Ripple Voltage & Noise

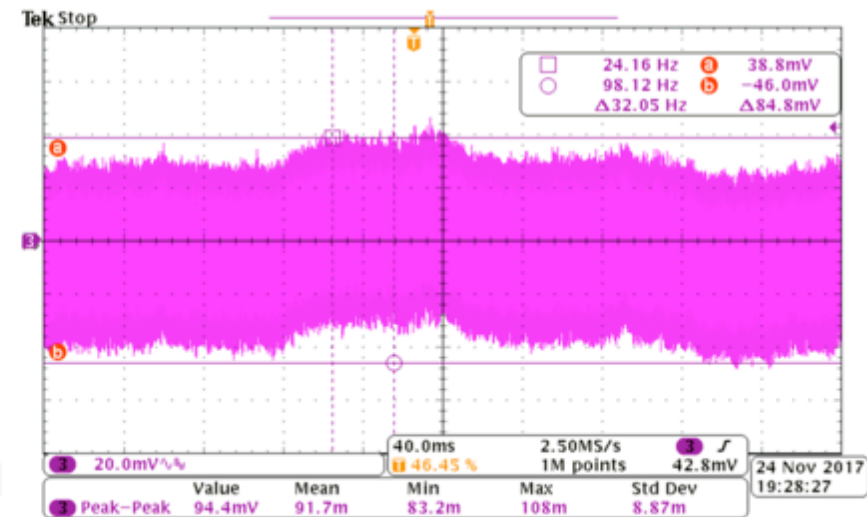
Input	12V/2A ripple noise	Spec <120mV
90VAC / 60Hz	108mV	Pass
264VAC / 50Hz	94mV	Pass

90Vac/2A



CH3: Vop-p(ac)

264Vac/2A



CH3: Vop-p(ac)

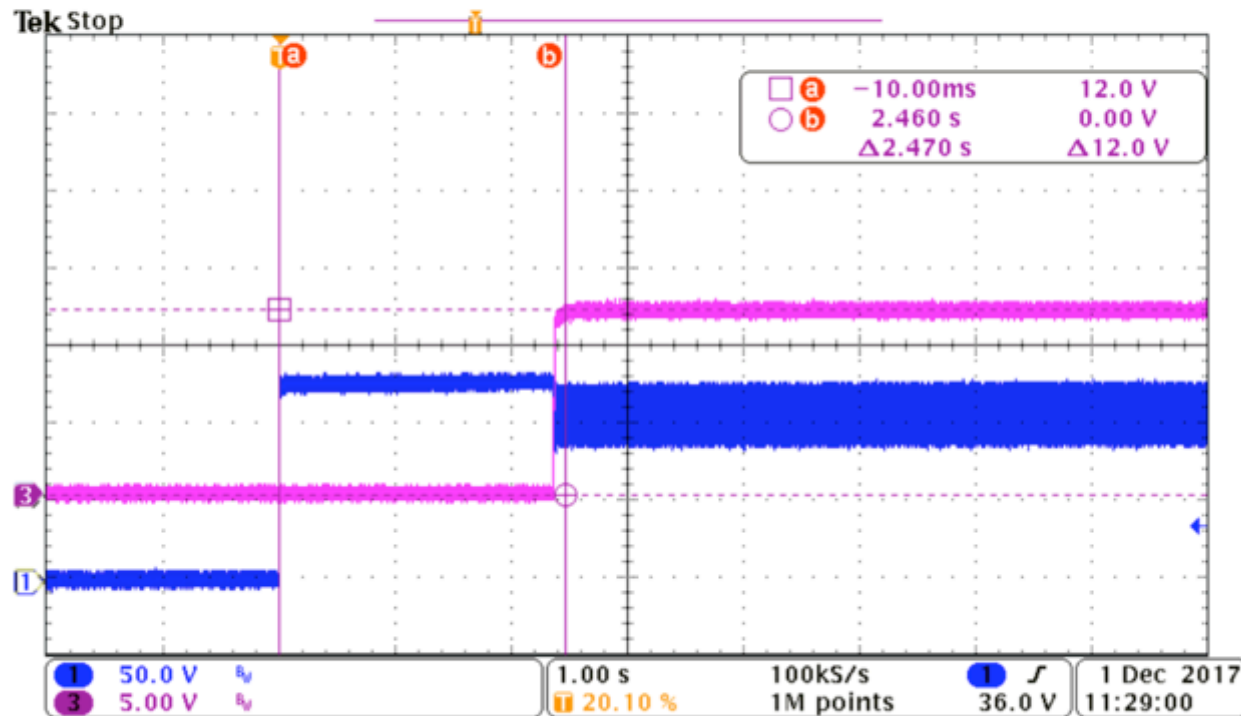
Over Current Protection

Input	12V $I_o(\text{Max})$	Spec. tolerance $\pm 6\%$
90VAC / 60Hz	2.64A	$\pm 2.92\%$
115VAC / 60Hz	2.60A	
230VAC / 50Hz	2.58A	
264VAC / 50Hz	2.49A	

Turn On Delay Time

Input	Turn on delay time	Spec
90VAC / 60Hz	2.47 Sec	< 3 sec

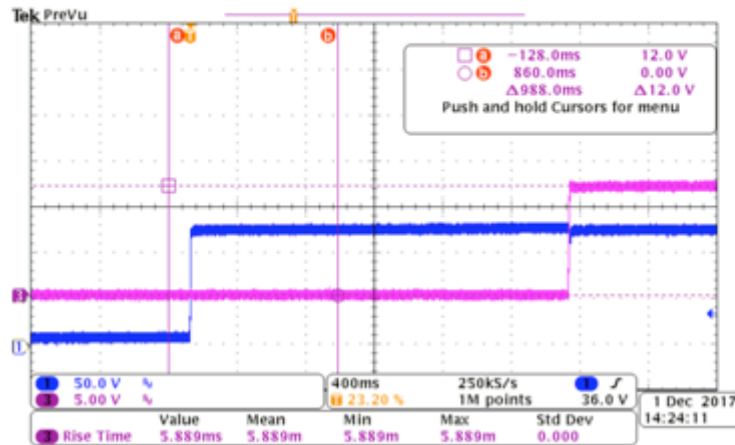
$R_{START} : 510Kohm*2$



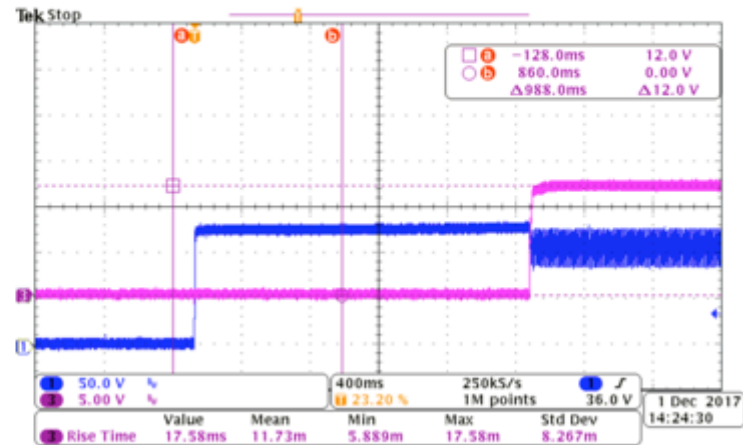
CH1: Vout, CH2: Bulk voltage

Output Rise Time

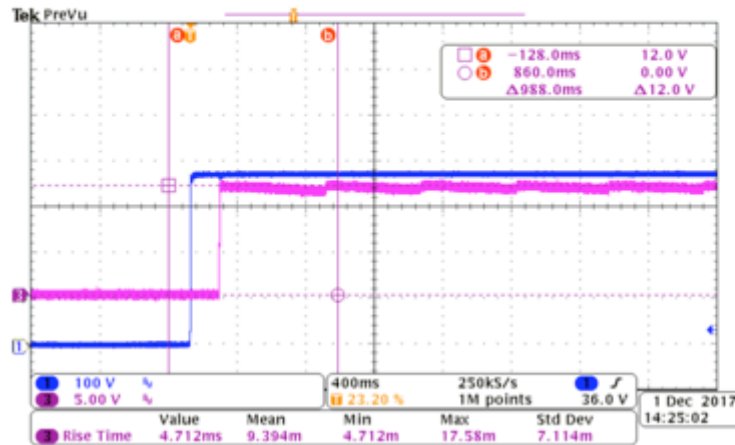
90VAC, No load
Trise = 5.88 mS



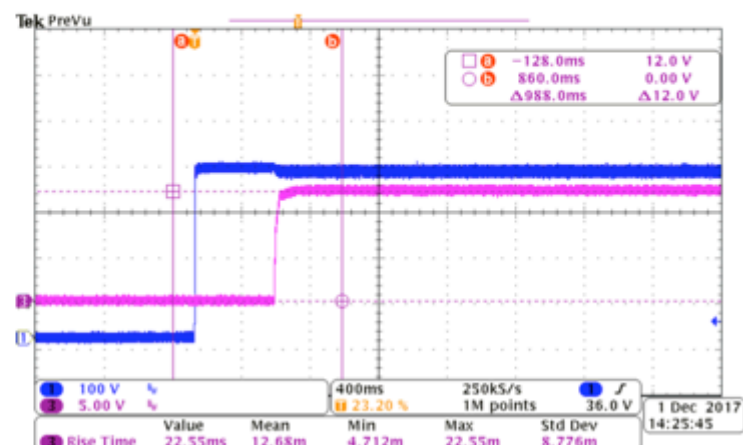
90VAC, Full load
Trise = 17.58mS



264VAC, No load
Trise = 4.712mS

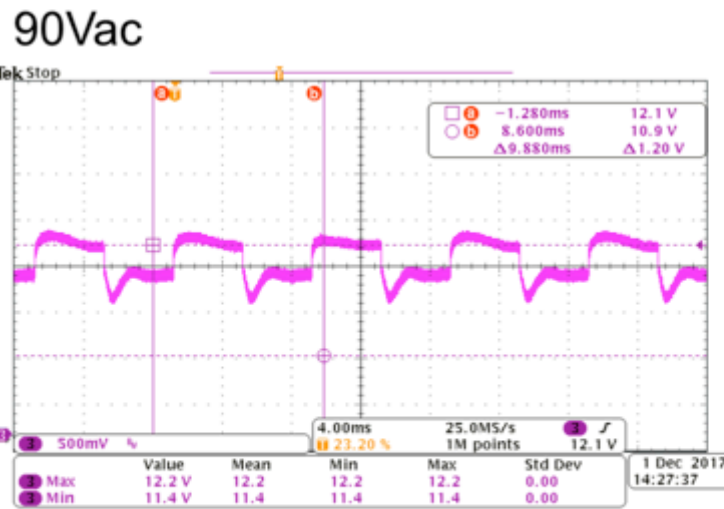


264VAC, Full load
Trise = 22.55mS

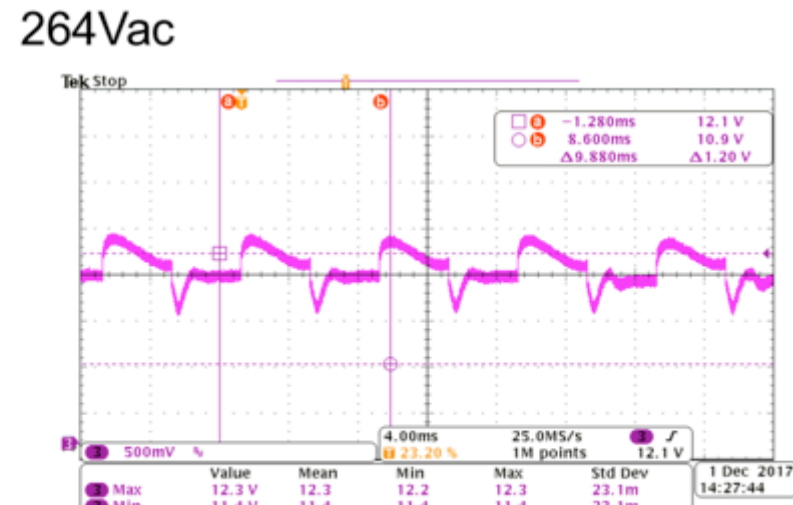


Dynamic Load Response

Input	Output Dynamic	Reading		+/-%
		Vmax(V)	Vmin(V)	
90VAC / 60Hz	0.2A→1.8A	12.2	11.4	± 3.39%
264VAC / 50Hz	0.2A→1.8A	12.3	11.4	± 3.8%
SPEC	12V ±1.2V			
Result		PASS		



CH3 Vo



CH3 Vo