PFE500-48 Application Board Test Data

PFE50048-EB
HAL021689 rev. P1

Begin Report
Program Name: PFE50048_PROMOTION BOARD Version: 1.80 Date: 10/10/2007
Serial Number: EBHAL021689P1_2 Time: 8:57:32 AM

Operator: admin

TEST ROUTINE	Minimum	Reading	Maximum	Pass/Fail
Inrush Test				
Peak Inrush (Amps)	0.000	27.450	40.000	Pass
Delay after Inrush test				
Delay 5000 ms				
Input Current Test @ 100VAC				
Input current (AC Amps)	0.200	6.105	6.200	Pass
Efficiency @ 100VAC FL				
Efficiency (%)	84.000	85.054	100.000	Pass
Output Power (Watts)		503.690		
Input Power (Watts)		592.200		
Power Factor (Watts/VA)		0.972		
Power Factor Test @100VAC FL				
Power Factor	0.950	0.970	1.000	Pass
Peak-Peak ripple test FL 85VAC				
+48VDC(PkPk mV)	0.000	4.247	480.000	Pass
Load Reg. Low Line 85vac				
+48VDC(Delta mV)	-96.000	-30.365	96.000	Pass
Line Reg. Full Load				
+48VDC(Delta mV)	-96.000	-0.126	96.000	Pass
Peak-Peak ripple test FL 265VAC				
+48VDC(PkPk mV)	0.000	3.700	480.000	Pass
Load Reg. High Line @265VAC				
+48VDC(Delta mV)	-96.000	31.364	96.000	Pass
Line Reg No Load				
+48VDC(Delta mV)	-100.000	0.126	100.000	Pass
Undervoltatge test				
UUT Lock Out Volts	65.000	70.000	84.000	Pass
Turn On UUT Volts	65.000	81.667	84.000	Pass
Delay before hold up test				
Delay 2000 ms				
Hold up time @100vac Full Power				
Event Time (mSec)	10.000	43.910	100.000	Pass
Delay after hold up				
Output Voltage Check				
+48VDC(DcV)	47.040	48.006	48.960	Pass
The End				
Delay 500 ms				

TEST PASSED

PFE50048-EB NEW HAL021689P1 BOARD

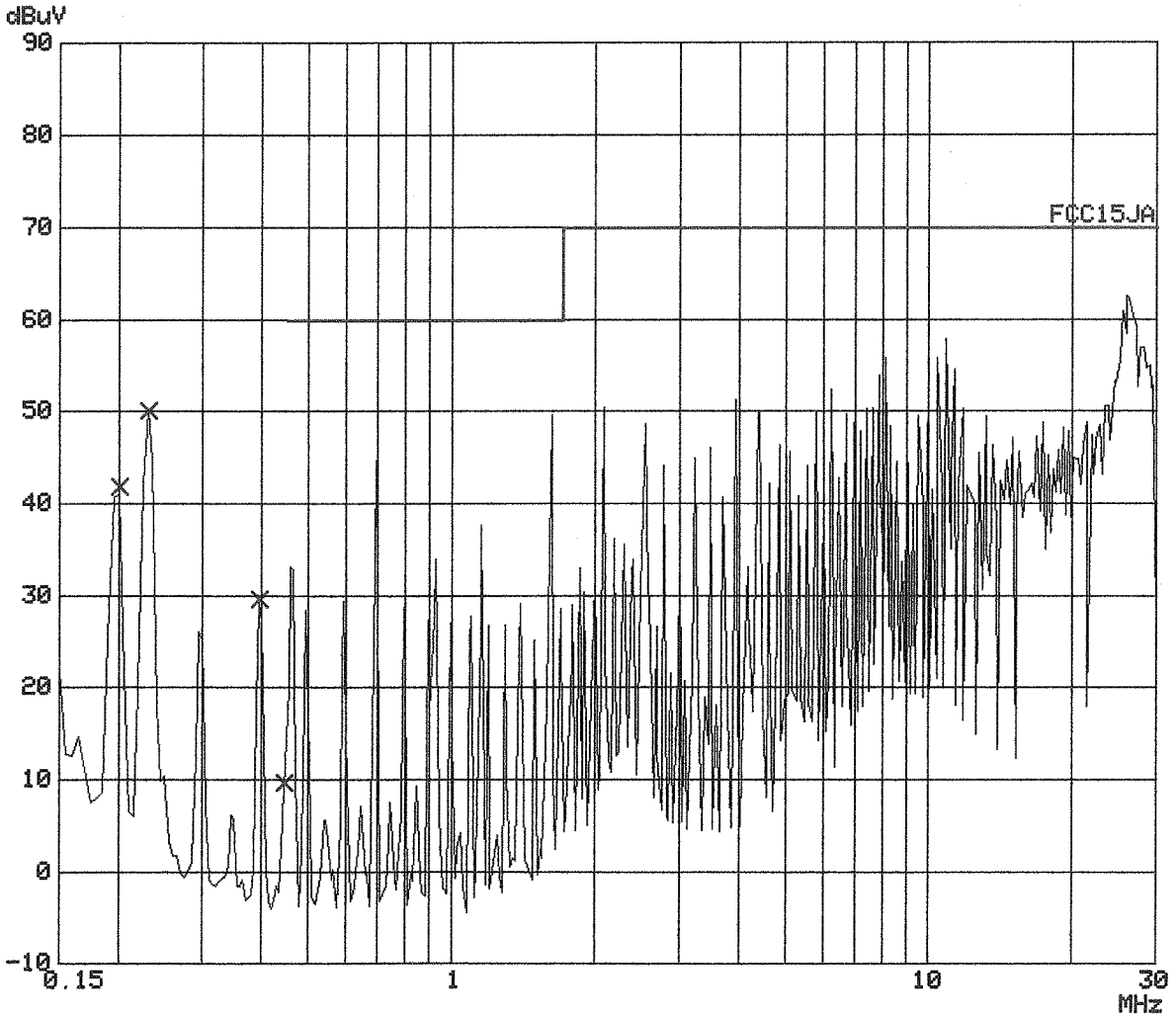
Vin= 265 vac

LEAKAGE CURRENT TEST

TEST POINTS	NORMAL	REVERSE
LINE-GROUND	540 uA	550 uA
NEUTRAL-GROUND	540 uA	550 uA

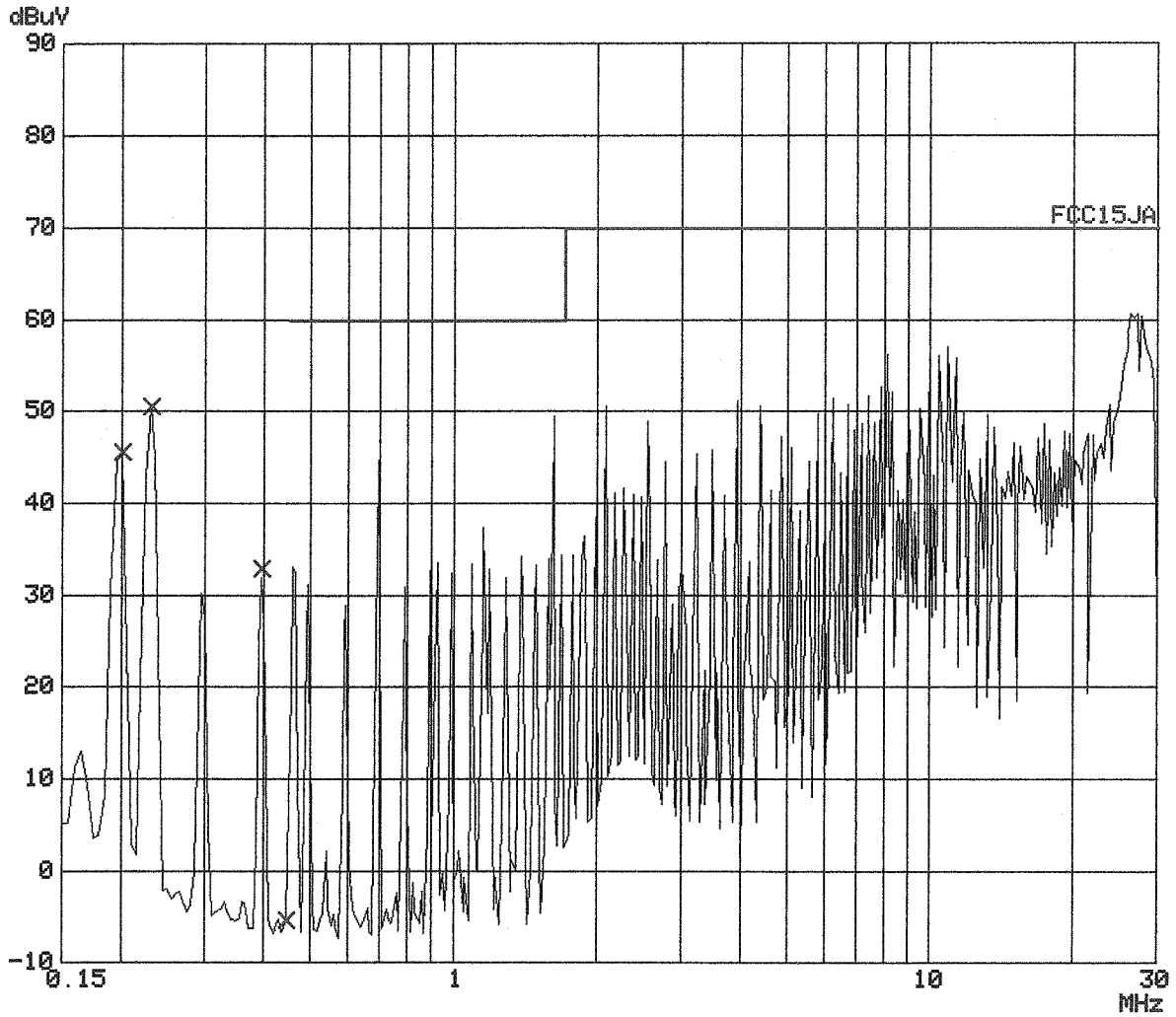
EVALUATION BOARD PFE50048

Manuf: FEDERICO_JUAN
Op Cond: 10.5A_48V_265VAC
Operator: TIMO
Date: 10. Oct 07 11:28



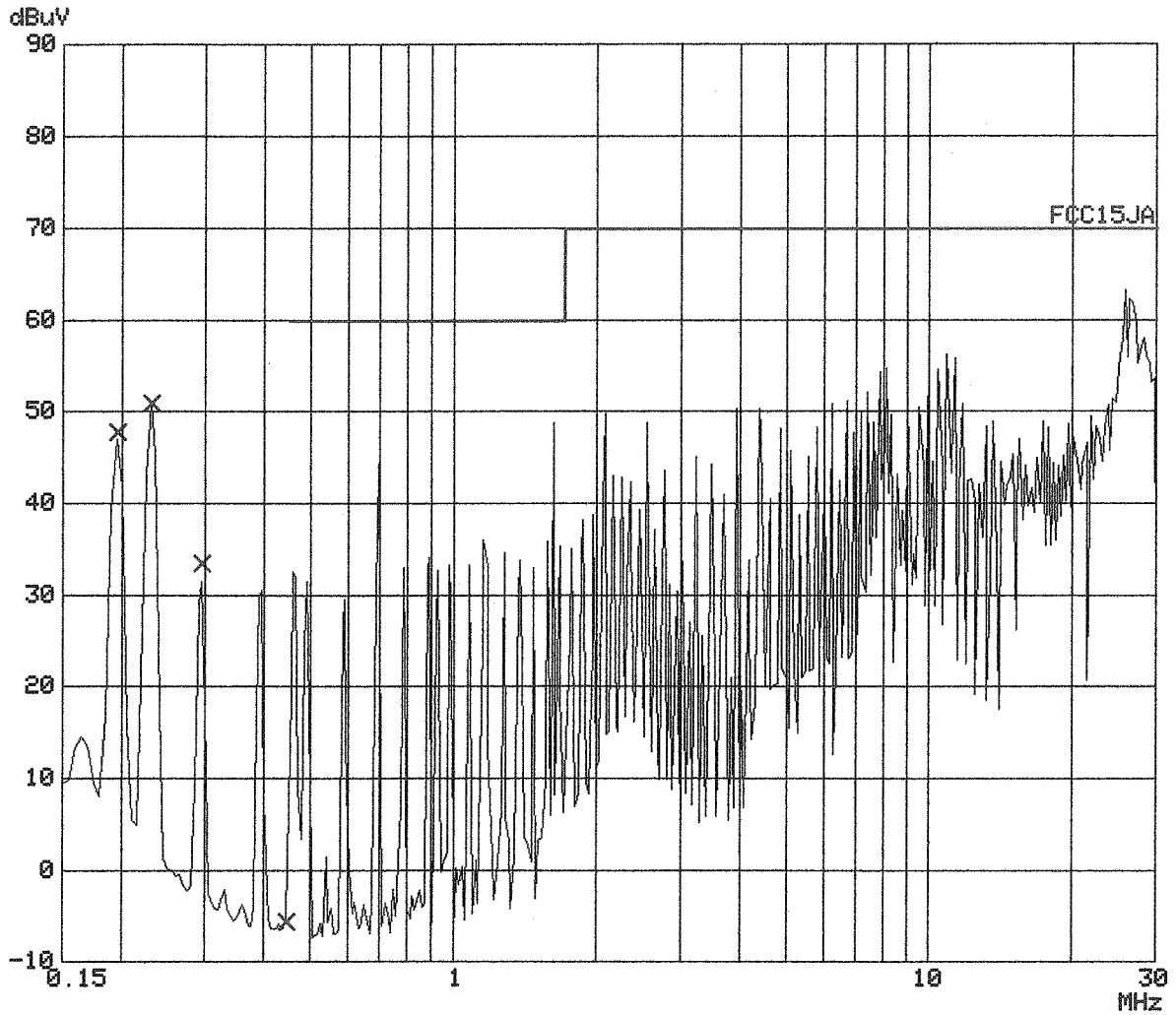
EVALUATION BOARD PFE50048

Manuf: FEDERICO_JUAN
Op Cond: 10.5A_48V_100VAC
Operator: TIMO
Date: 10. Oct 07 11:44



EVALUATION BOARD PFE50048

Manuf:	FEDERICO_JUAN
Op Cond:	10.5A_48V_85VAC
Operator:	TIMO
Date:	10. Oct 07 11:55



$V_{IN} = 100$ VAC

$I_O = 10.5$ Amps

$V_O = 48$ Vdc

PFE50048-EB

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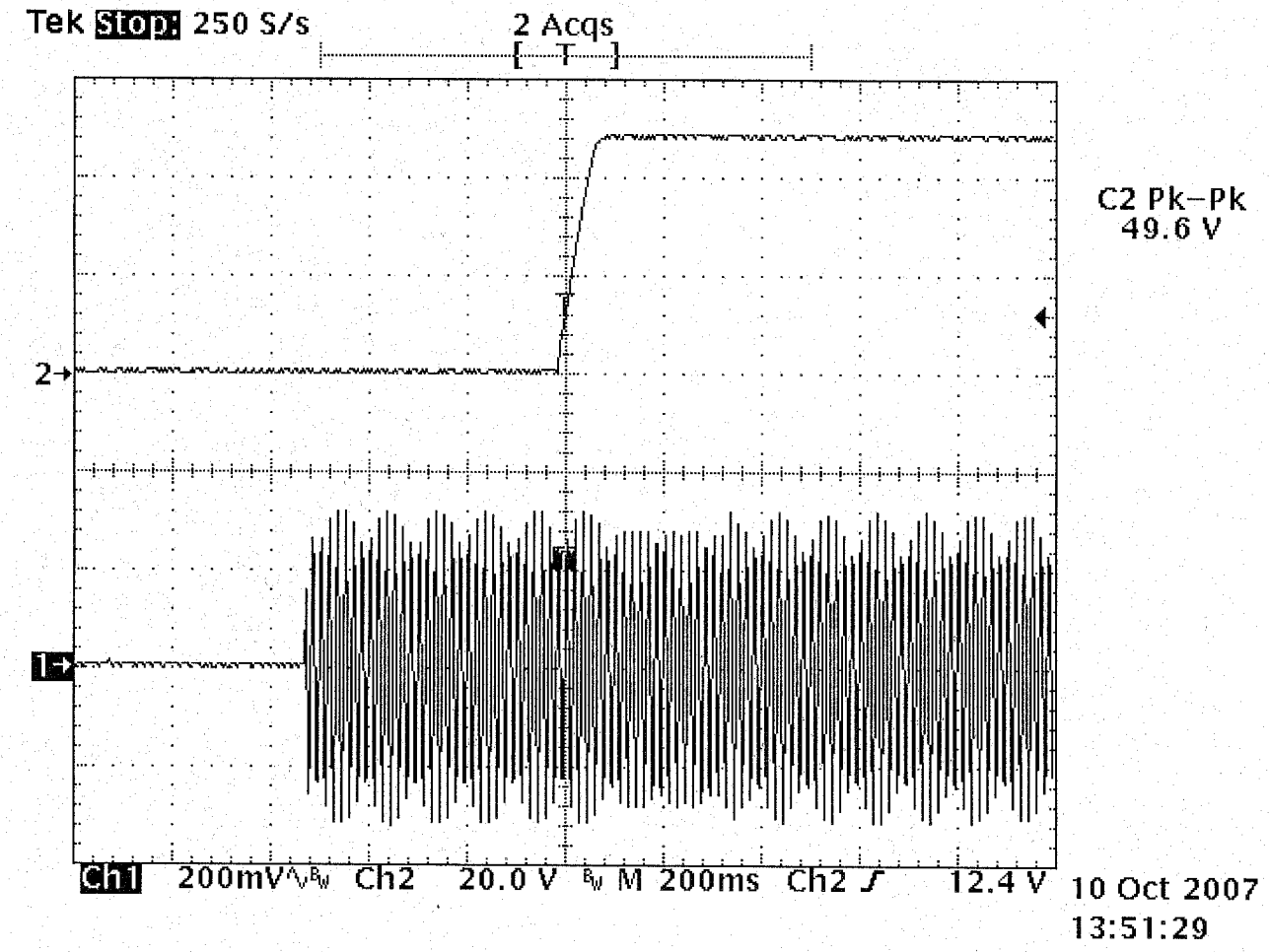
OUTPUT RISE

(TURN-ON TIME)



V_{IN} = 200 VAC

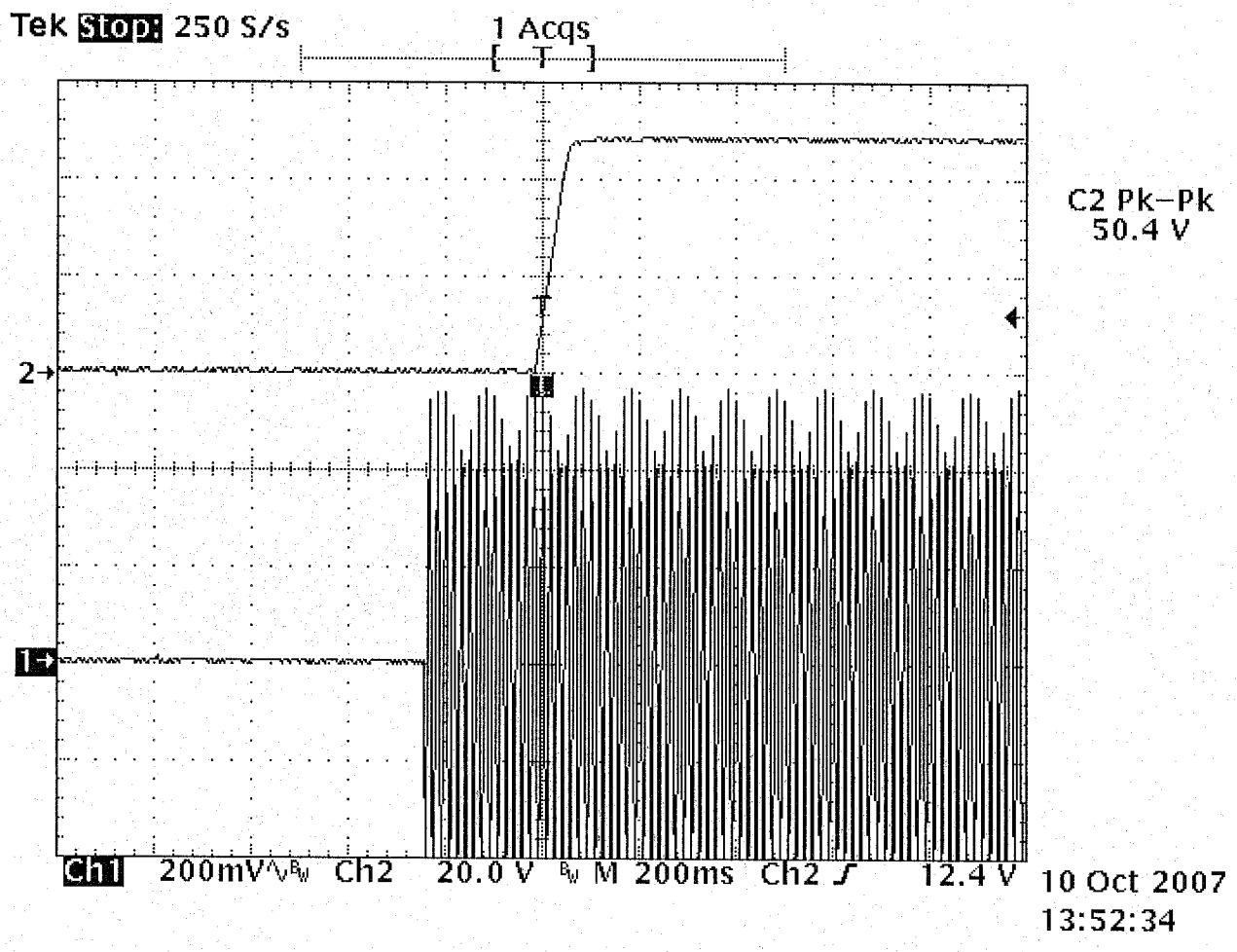
I_O = 10.5 Amps

V_O = 48 Vdc

PFE50048-EB

HAL021689 rev. P1

OUTPUT RISE (TURN-ON TIME)



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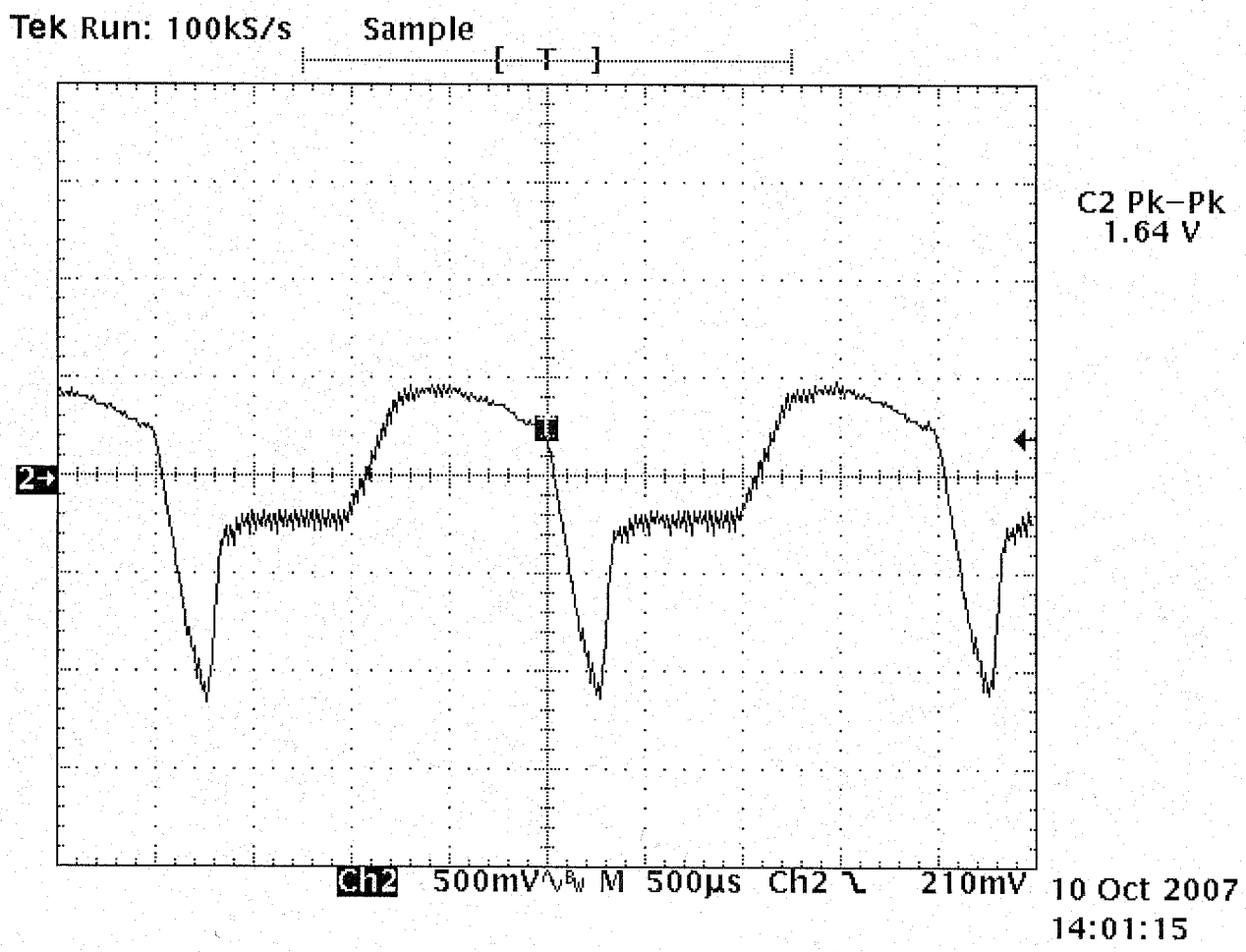
HAL021689 rev. P1

V_{IN} = 100 VAC

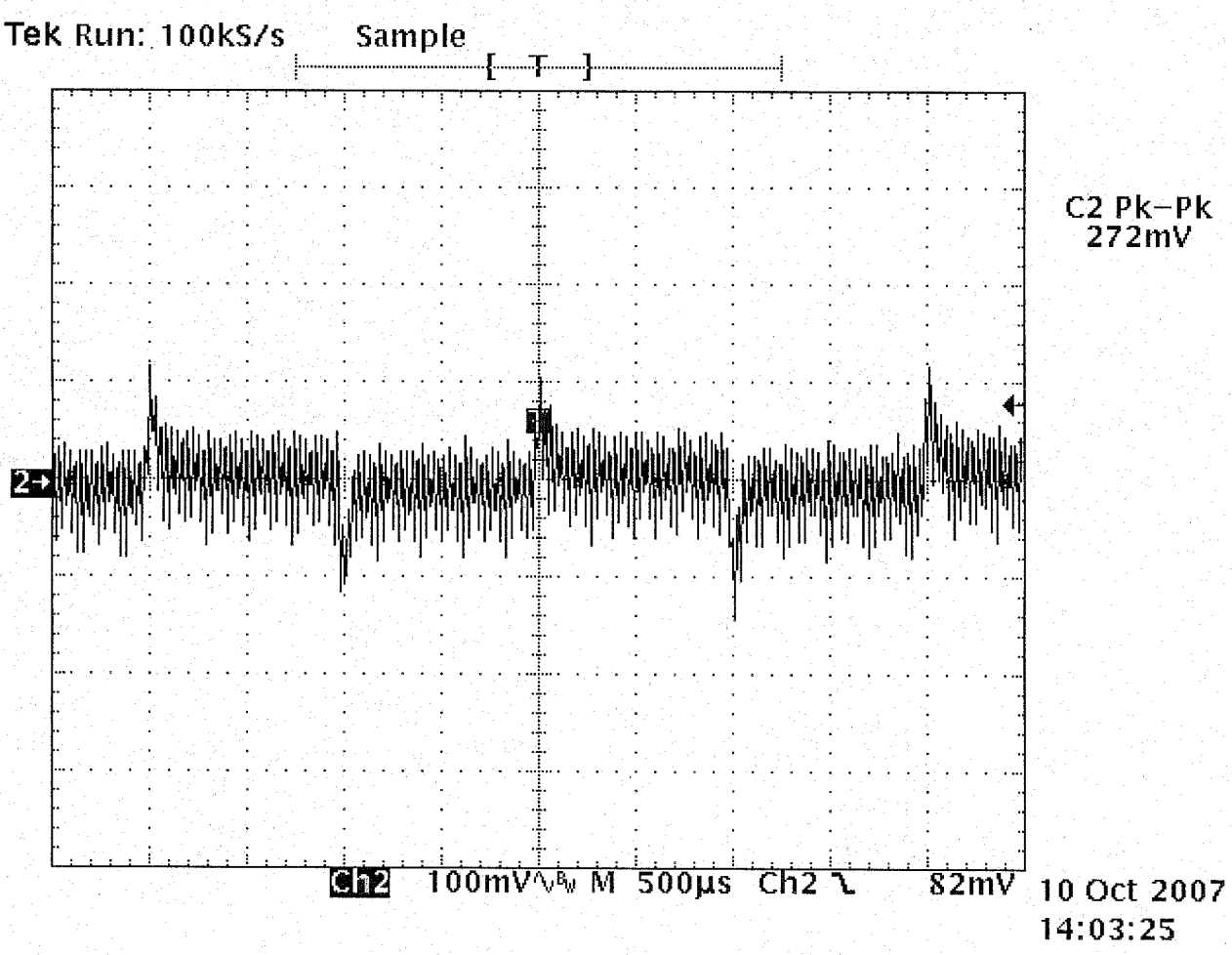
V_O = 48 Vdc

I_O = 0 - 25%



V_{IN} = 100VAC
I_O = 25 - 50%
V_O = 48Vdc

PFE5004S-EB
HALO2689 rev. P1



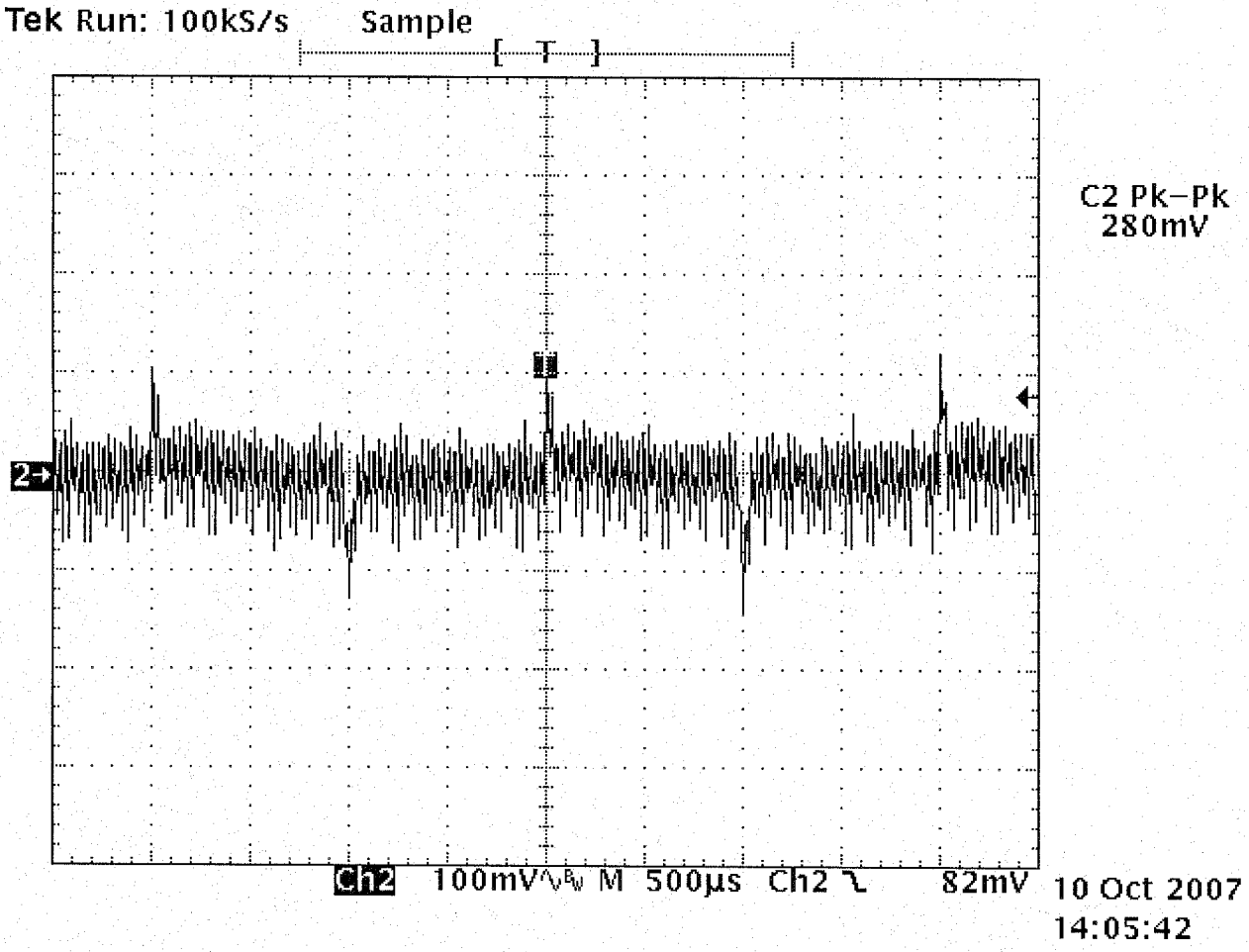
V_{IN} = 100VAC

V_o = 48Vdc

I_o = 50 - 75%

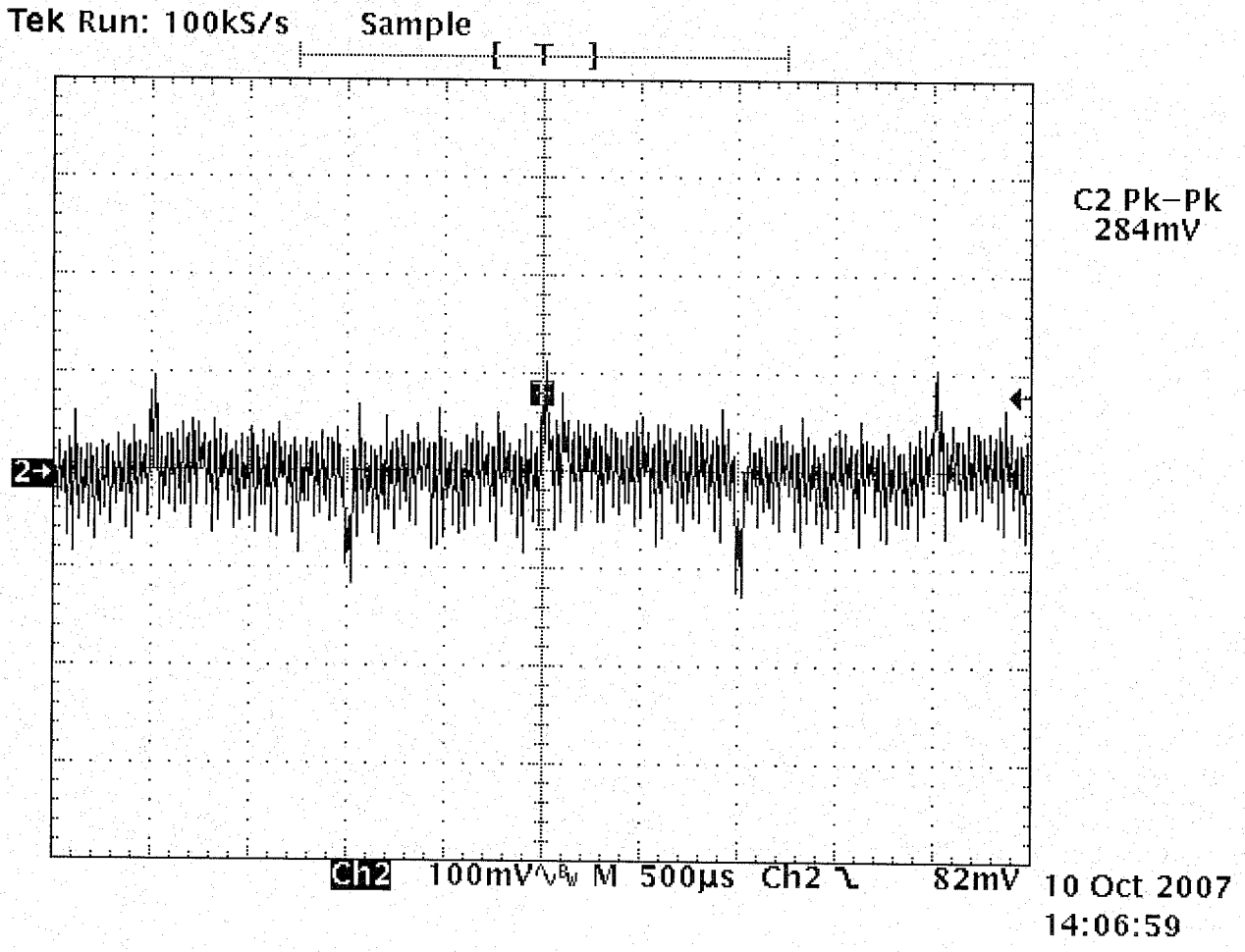
PFE50048 - EB

HAH021689 rev. P1



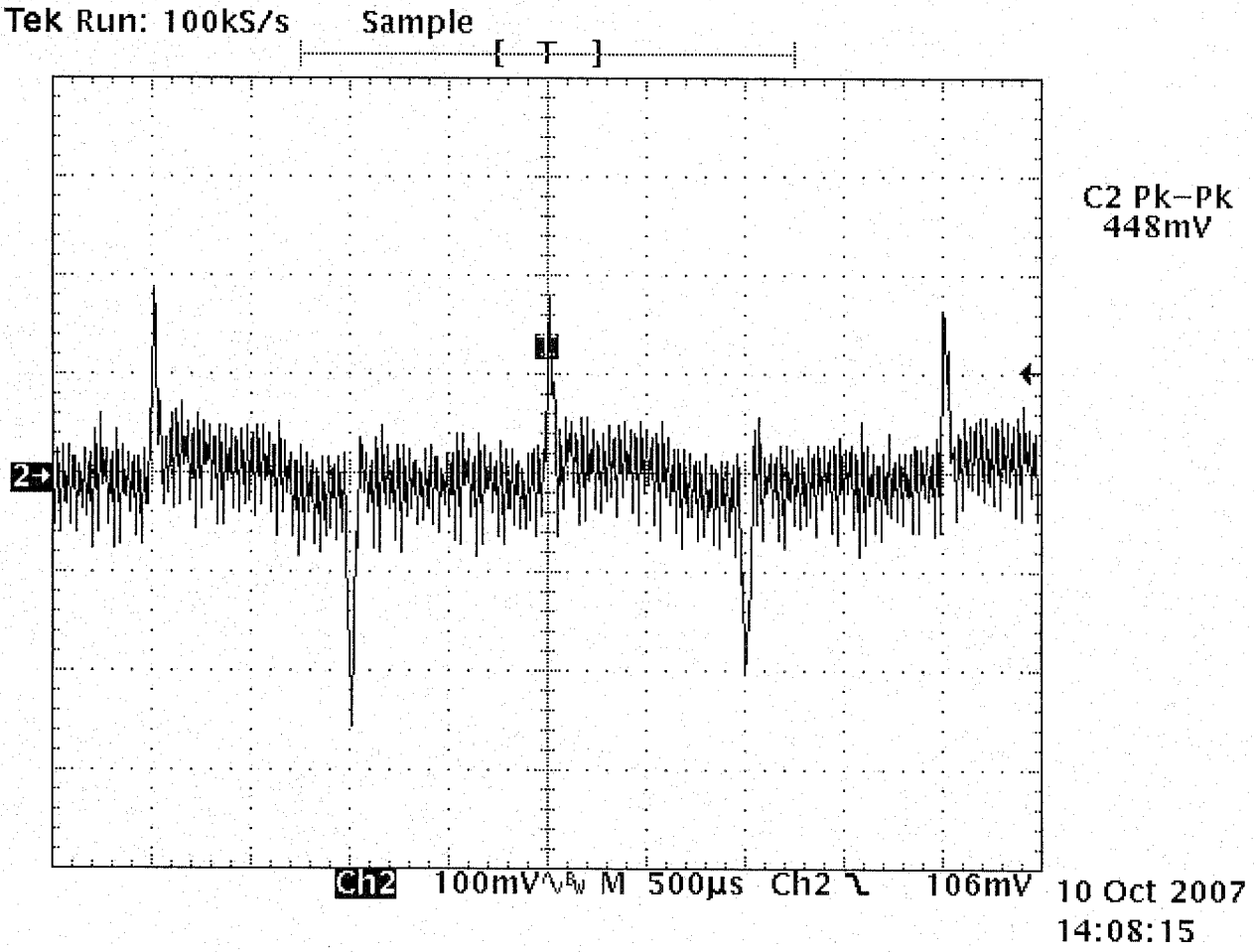
V_{IN} = 100 VAC
V_o = 48 Vdc
I_o = 75 - 100%

PFE5048-EB
HAL021689 rev. P1



V_{IN} = 100 VAC
V_o = 48 Vdc
I_o = 50-100%

PFE5048-EB
HAH021689 rev. P1



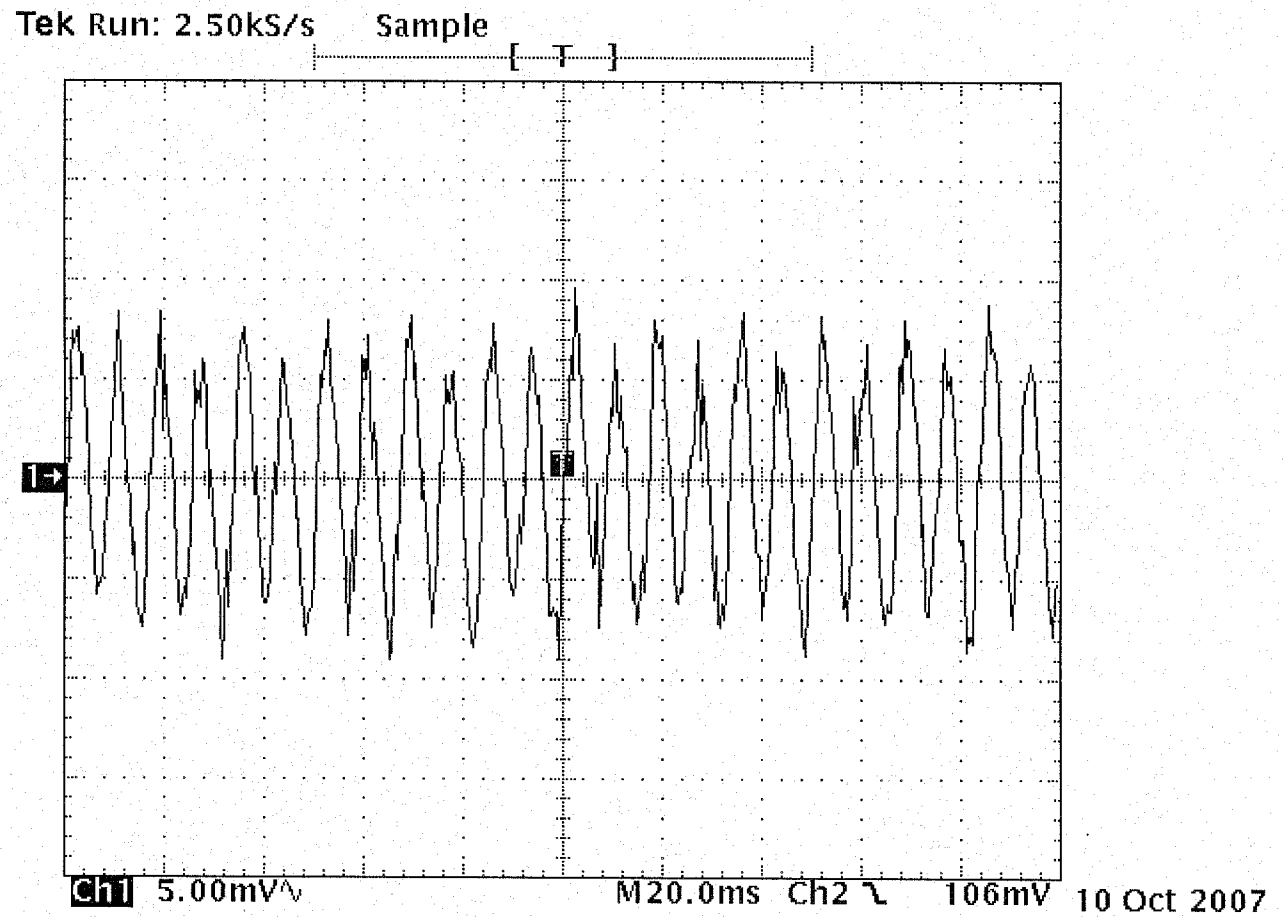
$V_{IN} = 100\ VAC$

$V_O = 48\ Vdc$

$I_O = 10.5\ Amps$

PFE50048 - EB

HAL021689 rev. P1



2.5 V/DIV

$V_{C102} = V_{BOOST}\ (P-P)$

BOOST RIPPLE

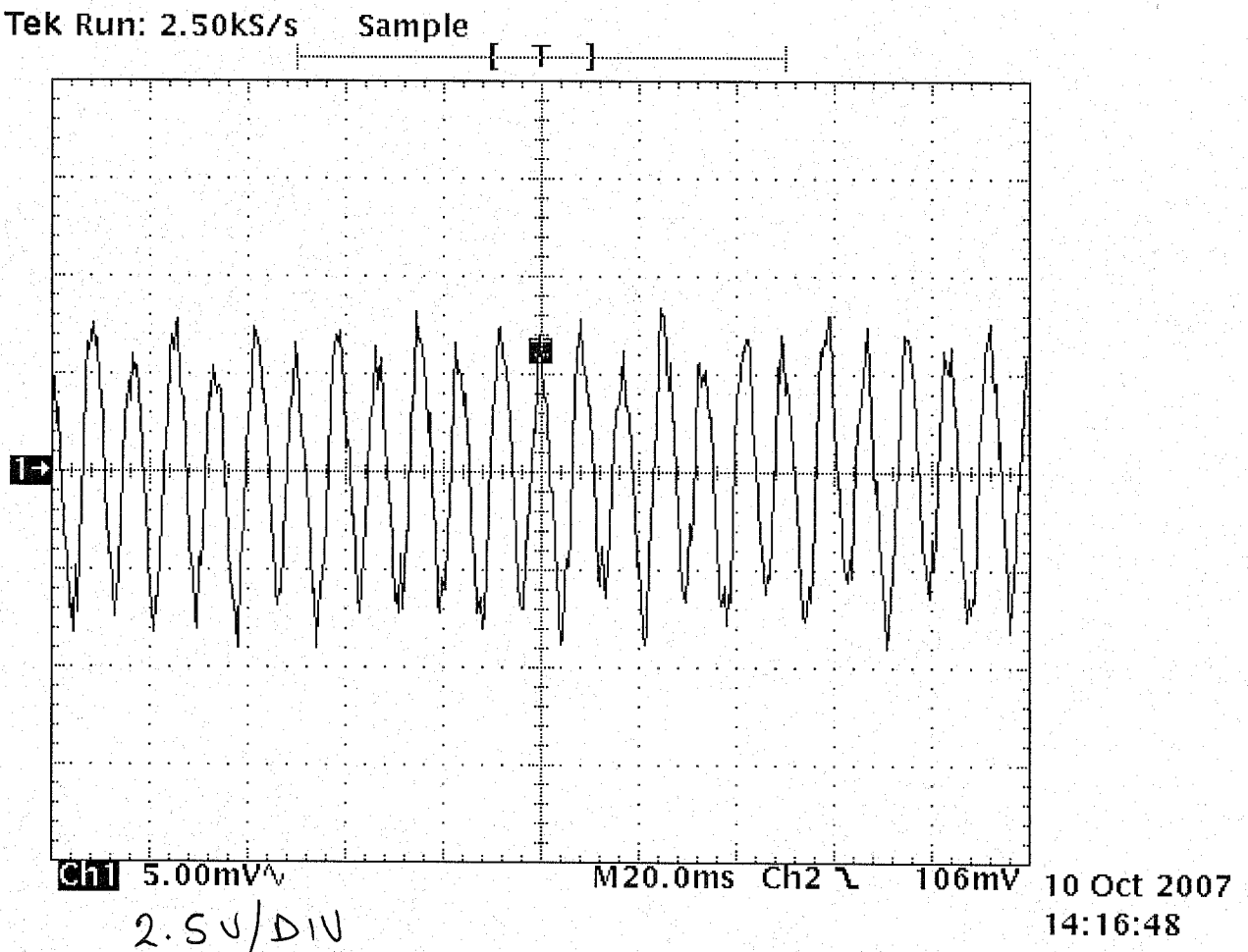
V_{IN} = 200 VAC

V_o = 48 Vdc

I_o = 10.5 Amps

PFE500W8-EB

HALO21689 rev. P1



2.5V/DIV

V_{C102} = BOOST RIPPLE

V_{IN} = 100 VAC
I_O = 10.5 AMPS
V_O = 48 Vdc

PFE500 48 - EB
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