図面名 :　　特性データ

得意先名 :

製品名 :　　MTW15-51212

TDK·Lambda

TDK 株式会社
テクニカルセンター

〒 272-8558
千葉県市川市東大和田2-15-7

承認	確認	立案
2006年11月10日 清水	2006年11月10日 下蔵	2006年11月10日 外岡

DWG.No.	ADSC-0001-1

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1	起動電圧	START-UP VOLTAGE	1	－	OK	
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5	効率	EFFICIENCY	2	16～17	OK	
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23	ﾌｧｰｽﾄﾄﾗﾝｼﾞｪﾝﾄ/ﾊﾞｰｽﾄﾉｲｽﾞ	FT/B NOISE IMMUNITY	6	－	OK	
24	静電気	ELECTROSTATIC DISCHARGE	7	－	OK	
25	雷サージ	LIGHTENING SURGE	7	－	OK	
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評 価 結 果 EVALUATION RESULT	型名 MODEL	ＭＴＷ１５－５１２１２	日付 DATE	6-Dec-04

項 目 ITEM	起動電圧　START UP VOLTAGE	判 定 JUDGE	Ｏ　Ｋ
規 格 SPEC.	評価標準(TDK STD.) AC80.75V MAX.		
結 果 RESULT	-20 ℃ ／ 60 ℃ 負荷条件 LOAD CONDITION +5V / +12V / -12V ／ +5V / +12V / -12V +5V=2A +12V=0.3A 78.1 ／ 63.7 V -12V=0.2A		

項 目 ITEM	最低ﾚｷﾞｭﾚｰｼｮﾝ　BROWNOUT VOLTAGE	判 定 JUDGE	Ｏ　Ｋ
規 格 SPEC.	評価標準(TDK STD.) AC80.75V MAX.		
結 果 RESULT	-20 ℃ ／ 60 ℃ 負荷条件 LOAD CONDITION +5V / +12V / -12V ／ +5V / +12V / -12V +5V=2A +12V=0.3A 66.7 / 60.4 / 61.5 ／ 73.1 / 62.7 / 63.8 V -12V=0.2A		

項 目 ITEM	過電流保護　OVER CURRENT PROTECTION	判 定 JUDGE	Ｏ　Ｋ
規 格 SPEC.	製品仕様(SPEC.),評価標準(TDK STD.) 過電流検出値 Over Current Setting V1(+5V) 3.15 A min. V3(-12V) 0.32 A min. V2(+12V) 0.63 A min. MINIMUM LOAD EXCEPT A MEASUREMENT OUTPUT.		
結 果 RESULT	過電流検出値 Over Current Setting Ta. -20°C 60°C AC 85V／AC100V／AC240V／AC265V AC 85V／AC100V／AC240V／AC265V V1:ALL MIN 4.4 ／ 5.0 ／ 4.8 ／ 4.8 A 4.3 ／ 4.8 ／ 4.4 ／ 4.4 A V1:ALL TYP 3.3 ／ 3.9 ／ 3.6 ／ 3.6 A 3.1 ／ 3.6 ／ 3.1 ／ 3.1 A V2:ALL MIN 1.0 ／ 1.0 ／ 1.2 ／ 1.2 A 0.88 ／ 0.88 ／ 0.98 ／ 0.98 A V2:ALL TYP 0.78 ／ 1.09 ／ 0.9 ／ 0.92 A 0.78 ／ 0.98 ／ 0.76 ／ 0.75 A V3:ALL MIN 0.56 ／ 0.56 ／ 0.58 ／ 0.58 A 0.48 ／ 0.48 ／ 0.48 ／ 0.48 A V3:ALL TYP 0.75 ／ 0.86 ／ 0.84 ／ 0.83 A 0.58 ／ 0.58 ／ 0.58 ／ 0.58 A		

評価結果 EVALUATION RESULT	型名 MODEL	MTW15－51212	日付 DATE	6-Dec-04

項目 ITEM	過電圧保護 OVER VOLTAGE PROTECTION	判定 JUDGE	O K
規格 SPEC.	過電圧検出値 Over Voltage Setting +5V 5.7 V min. +12V 15 V min -12V 15 V min 過電圧保護 Over Voltage Protection ﾂｪﾅｰｸﾗﾝﾌﾟ方式 Zener Diode Clamp Method	製品仕様(SPEC.)評価標準(TDK STD.) AVOID APPLY EXTERNAL VOLTAGE 25 °C 定格入出力 Rated Load,Rated Input Voltage	
結果 RESULT	ｵｰﾌﾟﾝｾﾝｽ法(OPEN SENSE：5V:R62-OPEN,IC51,IC52: INPUT-OUTPUT SHORT) Vin：AC100V/AC240V 負荷(LOAD)：MIN./MAX. OVP VOLTAGE AC100V AC240V +5V 8.75 / 8.3 V ←CR57 SHORT +12V 15.6 / 15.3 V 15.6 / 15.2 V ←CR58 NO DAMAGE -12V 15.7 / 15.3 V 15.7 / 15.3 V ←CR59 NO DAMAGE		

項目 ITEM	効率 EFFICIENCY	判定 JUDGE	O K
規格 SPEC.	71 % typ AC100V 70 % typ AC240V	製品仕様(SPEC.),評価標準(TDK STD.) 25 °C 定格入出力 Rated Load,Rated Input Voltage	

結果 RESULT

負荷率／入力電圧　PEAK: +5V=3A +12V=0.1A -12V=0A

	AC 85V	AC100V	AC132V	AC170V	AC200V	AC240V	AC265V
10%	52.1	50.1	45.8	39.1	34.1	29.7	26.7 %
25%	64.4	63.8	61.2	56.5	52.7	48.3	44.5 %
50%	69.8	70.2	69.6	67.3	65.1	61.6	59.3 %
75%	70.1	71.2	71.9	71.0	69.8	67.4	65.9 %
100%	68.8	70.4	72.0	72.0	71.3	70.1	68.9 %
PEAK	69.0	71.0	72.6	72.9	72.2	71.0	69.8 %

項目 ITEM	力率 POWER FACTOR	判定 JUDGE	O K
規格 SPEC.	0.55 typ AC100V 0.45 typ AC240V	製品仕様(SPEC.),評価標準(TDK STD.) 25 °C 定格入出力 Rated Load,Rated Input Voltage	

結果 RESULT

負荷率／入力電圧　PEAK: +5V=3A +12V=0.1A -12V=0A

	AC 85V	AC100V	AC132V	AC170V	AC200V	AC240V	AC265V
10%	0.46	0.44	0.40	0.38	0.37	0.35	0.35
25%	0.51	0.49	0.45	0.42	0.40	0.38	0.37
50%	0.56	0.53	0.49	0.45	0.43	0.41	0.40
75%	0.60	0.57	0.52	0.48	0.45	0.43	0.42
100%	0.62	0.59	0.55	0.50	0.47	0.45	0.43
PEAK	0.62	0.59	0.54	0.50	0.47	0.44	0.43

評 価 結 果 EVALUATION RESULT	型名 MODEL	ＭＴＷ１５－５１２１２	日付 DATE	6-Dec-04

項 目 ITEM	定常入力電流　　INPUT CURRENT						判 定 JUDGE	Ｏ　Ｋ
規 格 SPEC.	0.42 A typ.　AC100V　100% LOAD 0.25 A typ.　AC240V　100% LOAD						製品仕様(SPEC.),評価標準(TDK STD.) 25 ℃　定格入出力 Rated Load,Rated Input Voltage	
結 果 RESULT	負荷率／入力電圧						PEAK: +5V=3A +12V=0.1A -12V=0A	
		AC 85V	AC100V	AC132V	AC170V	AC200V	AC240V	AC265V
	0%	33.3	32.5	33.4	35.6	35.4	29.4	30.2 mA
	10%	0.08	0.07	0.07	0.06	0.06	0.06	0.07 A
	25%	0.14	0.13	0.11	0.10	0.10	0.09	0.09 A
	50%	0.24	0.21	0.18	0.15	0.14	0.13	0.13 A
	75%	0.34	0.30	0.24	0.21	0.19	0.17	0.17 A
	100%	0.44	0.38	0.31	0.26	0.24	0.21	0.20 A
	PEAK	0.44	0.39	0.31	0.26	0.24	0.21	0.20 A

項 目 ITEM	入力電力　　INPUT POWER						判 定 JUDGE	－　－
規 格 SPEC.	規定なし NOT SPECIFIED						評価標準(TDK STD.)	
結 果 RESULT	負荷率／入力電圧						PEAK: +5V=3A +12V=0.1A -12V=0A	
		AC 85V	AC100V	AC132V	AC170V	AC200V	AC240V	AC265V
	MIN.	1.1	1.2	1.6	2.0	2.3	2.0	2.2 W
	10%	3.1	3.2	3.5	4.1	4.7	5.4	6.0 W
	25%	6.2	6.3	6.6	7.1	7.6	8.3	9.0 W
	50%	11.5	11.4	11.5	11.9	12.3	13.0	13.5 W
	75%	17.1	16.9	16.7	16.9	17.2	17.8	18.2 W
	100%	23.2	22.7	22.2	22.2	22.4	22.8	23.2 W
	PEAK	23.3	22.7	22.2	22.2	22.3	22.7	23.1 W

項 目 ITEM	負荷急変　　TRANSIENT RESPONSE			判 定 JUDGE	Ｏ　Ｋ
規 格 SPEC.	負荷変動　50%～100% OF RATED LOAD　　TRANSIENT TIME　≧50μS 電圧変動(TRANSIENT LEVEL)：±4% max.　回復時間(RECOVERY TIME)：1mS max.				
結 果 RESULT	入力(Vin)：AC100V/AC240V　負荷(LOAD)：50%～100%　TRANSIENT TIME＝50μS 電圧変動(TRANSIENT LEVEL)/回復時間(RECOVERY TIME)				
		AC100V		AC240V	
	V1(5V)	20 mV (0.4 %)／0.2 mS		20 mV (0.4 %)／0.2 mS	
	V2(12V)	4 mV (0.03%)／0.1 mS		4 mV (0.03%)／0.1 mS	
	V3(-12V)	8 mV (0.07%)／0.1 mS		8 mV (0.07%)／0.1 mS	

評 価 結 果 EVALUATION RESULT	型名 MODEL	ＭＴＷ１５－５１２１２	日付 DATE	6-Dec-04

項 目 ITEM	起動特性　TURN-ON CHARACTERISTIC	判 定 JUDGE	Ｏ　Ｋ
規 格 SPEC.	起動時間　START UP TIME　　製品仕様(SPEC.),評価標準(TDK STD.) +5V:100ms max. ±12V:100ms max.　AC100V 25 ℃　定格入出力 Rated Load,Rated Input Voltage Output Voltage may not rise by constant current load. 許容負荷容量：+5V=10,000uF max, +12V=5,000uF max,　Acceptable output capacitor		
結 果 RESULT	立ち上がり波形に異常はない(NO UNUSUAL WAVEFORM OF TURN-ON)　負荷(LOAD)：100% 起動時間：START-UP TIMI　-20 ℃　／　60 ℃ AC 85V/AC100V/AC240V/AC265V　／　AC85V/AC100V/AC240V/AC265V V1: +5V　15 / 13 / 14 / 14 mS　／　18 / 16 / 23 / 23 mS V2:+12V　14 / 11 / 12 / 13 mS　／　16 / 14 / 20 / 20 mS V3:-12V　15 / 13 / 14 / 14 mS　／　17 / 15 / 21 / 21 mS Capacitive Load: +5V=12,000uF,+12V=6,000uF and +5V=20,000uF, +12V=10,000uF Turn-on is normally		

項 目 ITEM	保持特性　TURN-OFF CHARACTERISTIC	判 定 JUDGE	Ｏ　Ｋ
規 格 SPEC.	立ち下がり波形に異常のないこと。　　製品仕様(SPEC.),評価標準(TDK STD.) NO UNUSUAL WAVEFORM OF OUTPUT VOLTAGE　25 ℃　定格入出力 保持時間　HOLD UP TIME：　Rated Load,Rated Input Voltage 20 mS typ.(Input AC100V) 150 mS typ.(Input AC240V)		
結 果 RESULT	立ち下がり波形に異常はない(NO UNUSUAL WAVEFORM OF TURN-OFF)　負荷(LOAD)：100% 保持時間：HOLD-UP TIME　-20 ℃　／　60 ℃ AC 85V/AC100V/AC240V/AC265V　／　AC85V/AC100V/AC240V/AC265V V1: +5V　8 / 15 / 145 / 175 mS　／　11 / 18 / 170 / 180 mS V2:+12V　10 / 18 / 145 / 180 mS　／　15 / 23 / 175 / 215 mS V3:-12V　10 / 173 / 145 / 180 mS　／　14 / 12 / 170 / 220 mS		

項 目 ITEM	突入電流　INRUSH CURRENT	判 定 JUDGE	Ｏ　Ｋ
規 格 SPEC.	製品仕様(SPEC.),評価標準(TDK STD.) AC100V 20A typ.　25 ℃　定格入出力　ｺｰﾙﾄﾞｽﾀｰﾄ AC240V 50A typ.　Rated Load,Rated Input Voltage Cold start		
結 果 RESULT	AC100V　16.7 A (AVR) AC200V　34.0 A (AVR)　定格負荷　100% LOAD AC240V　41.3 A (AVR)　Cold Start		

評 価 結 果 EVALUATION RESULT	型名 MODEL	ＭＴＷ１５－５１２１２	日付 DATE	6-Dec-04

項 目 ITEM	漏洩電流　　LEAKAGE CURRENT	判 定 JUDGE	Ｏ　Ｋ
規 格 SPEC.	製品仕様(SPEC.),評価標準(TDK STD.) AC100V 0.75mA max.　0.2 mA typ.　60Hz　　(　)：片切り　NON OPERATING(OFF) AC240V 0.75mA max.　0.3 mA typ.　60Hz　　動作時 (LINE OPERATING)		
結 果 RESULT	負荷(LOAD)：100%　　60Hz 入力 ： AC100V　　/ AC120　　/ AC200V　　/ AC240V 0.12(0.17) / 0.14(0.20) / 0.24(0.36) / 0.30(0.44) mA (　)：片切り　NON OPERATING(OFF)		

項 目 ITEM	絶縁抵抗　　INSULATION RESISTANCE	判 定 JUDGE	Ｏ　Ｋ
規 格 SPEC.	製品仕様(SPEC.),評価標準(TDK STD.) 入力－出力間　(INPUT TO OUTPUT)　100 MΩ MIN　　DC 500V 入力－ＦＧ間　(INPUT TO FG)　　100 MΩ MIN　　DC 500V 出力－ＦＧ間　(OUTPUT TO FG)　　100 MΩ MIN　　DC 500V		
結 果 RESULT	DC500V 印加 入力－出力間　(INPUT TO OUTPUT)　500,000 MΩ 入力－ＦＧ間　(INPUT TO FG)　　400,000 MΩ 出力－ＦＧ間　(OUTPUT TO FG)　　400,000 MΩ		

項 目 ITEM	耐電圧　　WITHSTAND VOLTAGE(HI-POT TEST)	判 定 JUDGE	Ｏ　　Ｋ
規 格 SPEC.	製品仕様(SPEC.),評価標準(TDK STD.) 入力－出力間　(INPUT TO OUTPUT)　AC3,000V　1 Minute 入力－ＦＧ間　(INPUT TO FG)　　AC2,000V　1 Minute 出力－ＦＧ間　(OUTPUT TO FG)　　AC500V　　1 Minute 1分間　ｶｯﾄｱｳﾄ電流　10mA　　1 min.　CUTOUT CURRENT　10mA		
結 果 RESULT	入力－出力 間　　入力－ＦＧ 間　　出力－ＦＧ 間 INPUT TO OUTPUT　　INPUT TO FG　　INPUT TO FG AC 3.0KV(3.6KV)　　AC 2.0KV(2.4KV)　　AC 500V(600V) 3.0 (3.5) mA　　2.7 (3.0) mA　　3.4 (4.0) mA 試験時のリーク電流 (LEAKAGE CURRENT)　　50Hz		

評 価 結 果 EVALUATION RESULT	型名 MODEL	ＭＴＷ１５－５１２１２	日付 DATE	6-Dec-04

項 目 ITEM	重量　　WEIGHT	判 定 JUDGE	Ｏ　Ｋ
規 格 SPEC.	製品仕様(SPEC.)評価標準（TDK STD.） 150 g max.		
結 果 RESULT	120 g		

項 目 ITEM	瞬停　　SHORT INTERRUPTIONS	判 定 JUDGE	Ｏ　Ｋ
規 格 SPEC.	製品仕様(SPEC.),評価標準(TDK STD.) 10mS～50Sの瞬停に於いて、停電時及び復電時に出力電圧の立ち下がり、立ち上がり波形に異常がない事。 NO UNUSUAL WAVEFORM OF OUTPUT VOLTAGE FOR 10mS～50 SECONDS SHORT INTERRUPTIONS. During input voltage short interruptions, the output voltage may rise momentarily,then drop.		
結 果 RESULT	入力(Vin)：AC100V/AC240　負荷(LOAD)：定格（RATED LOAD) 10mS～50S の瞬停において、瞬停及び復電時に異常はない。 瞬停耐量： AC100V　19mS AC240V　162mS NORMAL OPERATION WHEN POWER SUPPLY IS TURNED ON AND TURNED OFF.		

項 目 ITEM	ﾊﾞｰｽﾄｲﾐｭﾆﾃｨ　　FAST TRANSIENT/BURST IMMUNITY	判 定 JUDGE	Ｏ　Ｋ
規 格 SPEC.	評価標準(TDK STD.) EN61000-4-4　Level 3 CONDITION　　NOISE LEVEL 3：+/-2KV AMPLITUDE. 2.5KHz APPLIED TERMINAL：L1,L2,PE,L1+L2,L1+PE,L2+PE,L1+L2+PE 動作異常の無い事。　NORMAL OPERATING		
結 果 RESULT	入力電圧(Vin)：AC100V/AC200V　負荷(LOAD)：POWER ON MAX. (RESISTER LOAD) 入力、ＰＥ　間に +/-2KVを印可し、誤動作・部品破損等の異常はない。 APPLIED TERMINAL：L1,L2,PE,L1+L2,L1+PE,L2+PE,L1+L2+PE NOISE LEVEL: +/-2KV　　設備 Instr:FNS-AXⅡ-B50　Noise Labo. OPERATION IS NORMALLY AND NO DAMAGE.		

評 価 結 果 EVALUATION RESULT	型名 MODEL	MTW１５－５１２１２	日付 DATE	6-Dec-04

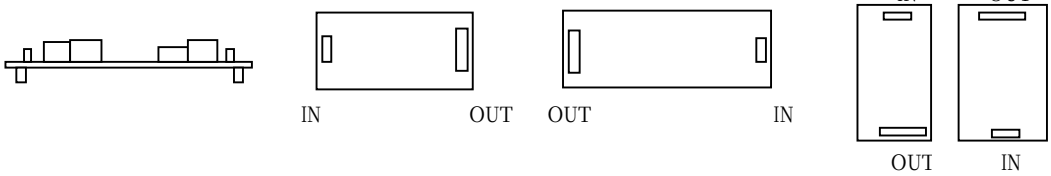
項 目 ITEM	静電気　　ELECTROSTATIC DISCHARGE	判 定 JUDGE	6-Dec-04
規 格 SPEC.	EN61000-4-2　Level 4　　評価標準(TDK STD.) CONDITION　　ESD LEVEL：CONTACT DISCHARGE +/- 8KV AMPLITUDE ESD LEVEL：AIR DISCHARGE +/- 15KV AMPLITUDE APPLIED TERMINAL：FRAME TO PE INPUT TERMINAL LIMIT　　NO UNUSUAL OPERATION　AND NO DAMAGE		
結 果 RESULT	入力電圧(Vin)：AC100V/AC200V　負荷(LOAD)：POWER ON MAX. (RESISTER LOAD) 接触放電：+/- 8KV 各10回(10 TIMES APPLIED FOR EACH) ﾌﾚｰﾑとFG 端子間に印加 CONTACT DISCHARGE:　APPLIED TERMINAL：FRAME TO FG INPUT TERMINAL 気中放電：+/- 15KV 各10回(10 TIMES APPLIED FOR EACH) ﾌﾚｰﾑとFG　端子間に印加 AIR DISCHARGE:　APPLIED TERMINAL：FRAME TO FG INPUT TERMINAL 誤動作や部品破損等の異常はない。 OPERATION IS NORMALLY　AND NO DAMAGE　　設備 Instr:ESS-2000　Noise Labo. TC815P		

項 目 ITEM	雷サージ　　LIGHTENING SURGE	判 定 JUDGE	O　K
規 格 SPEC.	製品仕様(SPEC.),評価標準(TDK STD.) EN61000-4-5　Level 4 1. APPLIED SURGE：NORMAL MODE: +/- 2KV,COMMON MODE: +/- 4KV APPLIED TERMINAL:INPUT TO INPUT AND INPUT TO FG		
結 果 RESULT	入力電圧(Vin)：AC100V/AC200V　負荷(LOAD)：100%. (RESISTER LOAD) 1. 入力－入力間(INPUT TO INPUT):+/- 2KV 各 5回印加(5 TIMES APPLIED FOR EACH) 入力－FG 端子間 (INPUT TO FG)：R,S 相 +/- 4KV　各 5回印加 BOTH PHASE：5 TIMES APPLIED FOR EACH SURGE VOLTAGE 誤動作や部品破損等の異常はない, OPERATION IS NORMALLY AND NO DAMAGE. 設備 Instr:LSS-15AX　Noise Labo.		

項 目 ITEM	振動　　VIBRATION	判 定 JUDGE	O　K
規 格 SPEC.	製品仕様(SPEC.),評価標準(TDK STD.) 5～10Hz　：全振幅 (AMPLITUDE) 10mm P-P 10～200Hz ：加速度 (ACCELERATION) 19.6 m/S^2 (2 G) 1ｻｲｸﾙ 10分　X,Y,Z　3方向 各1時間（非動作時） 異常のないこと SWEEP TIME： 1 CYCLE IN 10 MINUTES,　THREE DIRECTION EACH AXIS AT ONE HOUR		
結 果 RESULT	5～10Hz　：全振幅 (AMPLITUDE) 10mm P-P 10～200Hz ：加速度 (ACCELERATION) 21.6m/S^2 (2.2G) 1ｻｲｸﾙ 10分　X,Y,Z　3方向 各1時間実施 （非動作時 :WHEN　NOT OPERATING) SWEEP TIME： 1 CYCLE IN 10 MINUTES, THREE DIRECTION EACH AXIS AT ONE HOUR APPLIED 部品破損等の異常はない。 NO DAMAGE		

評 価 結 果 EVALUATION RESULT	型名 MODEL	MTW15－51212	日付 DATE	6-Dec-04

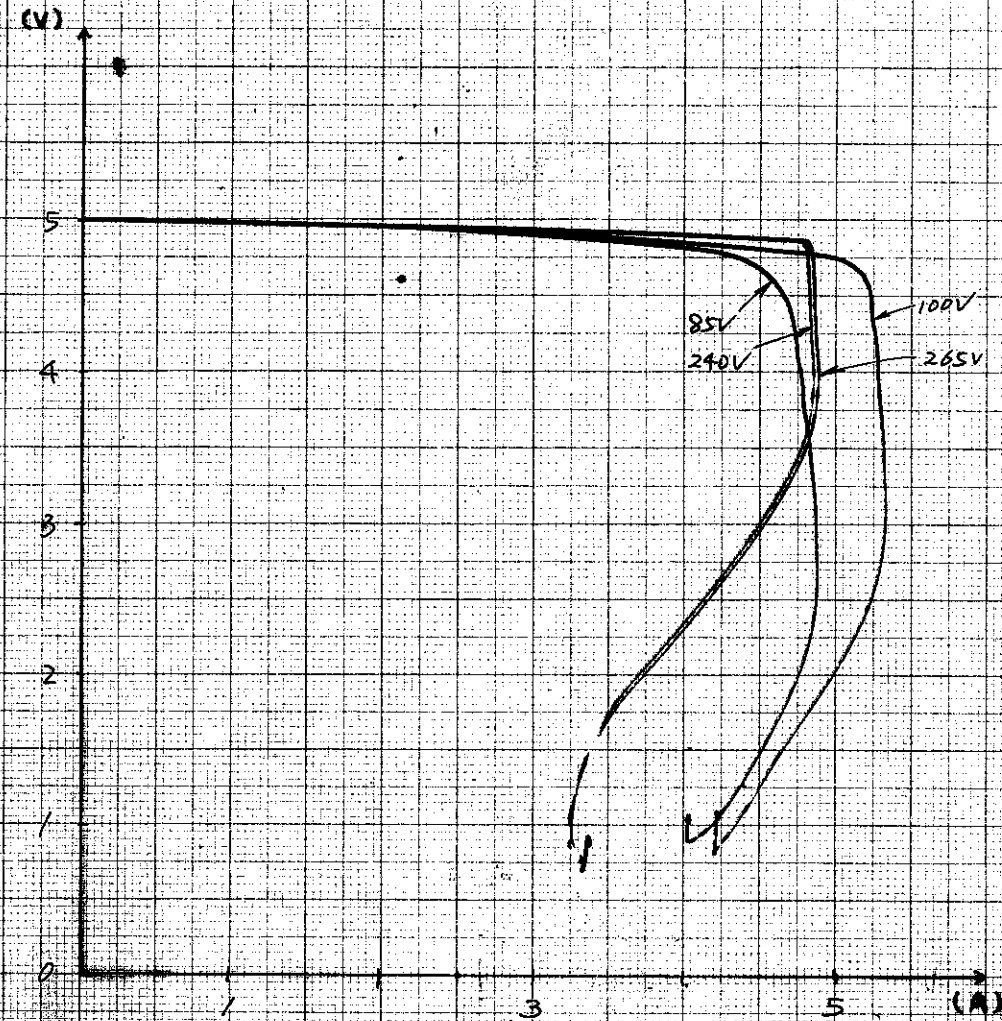
項 目 ITEM	衝撃　　SHOCK	判 定 JUDGE	O　K
規 格 SPEC.	製品仕様(SPEC.),評価標準(TDK STD.) 加速度 (ACCELERATION)： 588 m／S^2 (60G)　正弦半波 (1/2 SINE PULSE) 衝撃時間 (DURATION)：11 ±5mS X,Y,Z　3方向各3回　異常のないこと 3 SHOCKS EACH AXIS　NO DAMAGE		
結 果 RESULT	加速度 (ACCELERATION)： 588 m／S^2 (60G) 正弦半波 (1/2 SINE PULSE)　11±5 mS X,X',Y,Y'Z,Z'　6 方向各 3 回 3 SHOCKS EACH AXIS 部品破損等の異常はない。 NO DAMAGE		

項 目 ITEM	電解コンデンサ算出寿命　　EXPECTED LIFE OF ELECTROLYTIC CAPACITOR	判 定 JUDGE	O　K
規 格 SPEC.	製品仕様(SPEC.)、評価標準(TDK STD.) 周囲温度(Ta)＝40℃ 寿命 EXPECTED LIFE ：10, 000 時間以上 (Hrs min.) 標準取付 STANDARD MOUNTING		
結 果 RESULT	周囲温度(Ta):40℃　入力(Vin):AC100V/AC240V 負荷(LOAD):+5V=2.0A +12V=0.3A -12V=0.2A 最小値(MIN. VALUE) 設置 MOUNTING　保証値 WARRANTY ／ 実力値 ACTUAL A　24,330／26,620 ／ 28,390／31,060 時間 Hrs C　33,700／36,630 ／ 39,320／42,730 時間 Hrs D　31,880／36,630 ／ 37,200／42,730 時間 Hrs E　31,660／35,130 ／ 36,940／40,990 時間 Hrs F　27,950／28,340 ／ 32,610／33,060 時間 Hrs (A)標準取付　(C)　(D)　(E)　(F) STANDARD MOUNTING  		

過電流保護 OVERCURRENT　　MODEL: MTW15-51212　　SER NO.

DATE: 04/11/5
TESTED BY: M.W

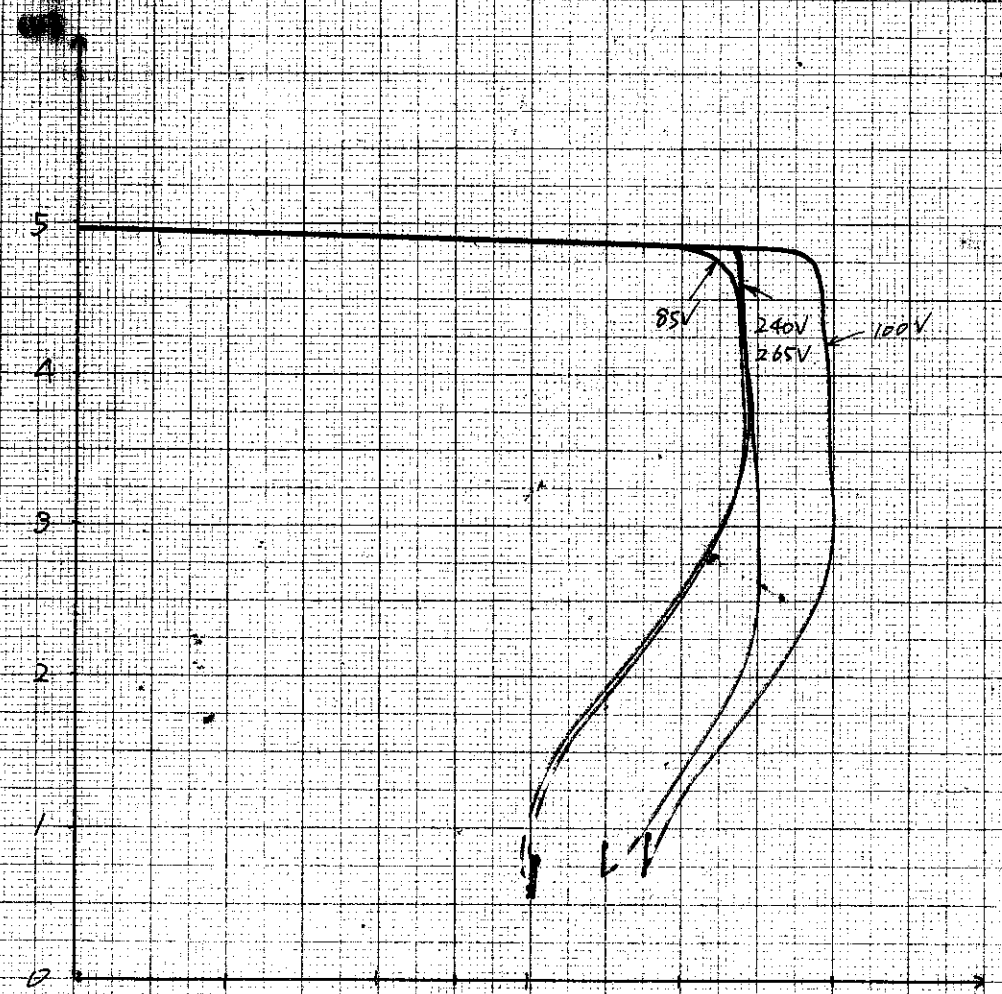
+5V



NOTE:

Ta = -20°C

ALL MIN LOAD



NOTE:

Ta = 60°C

ALL MIN LOAD

過電流保護 OVERCURRENT MODEL: MTW15-5I212 SER NO.

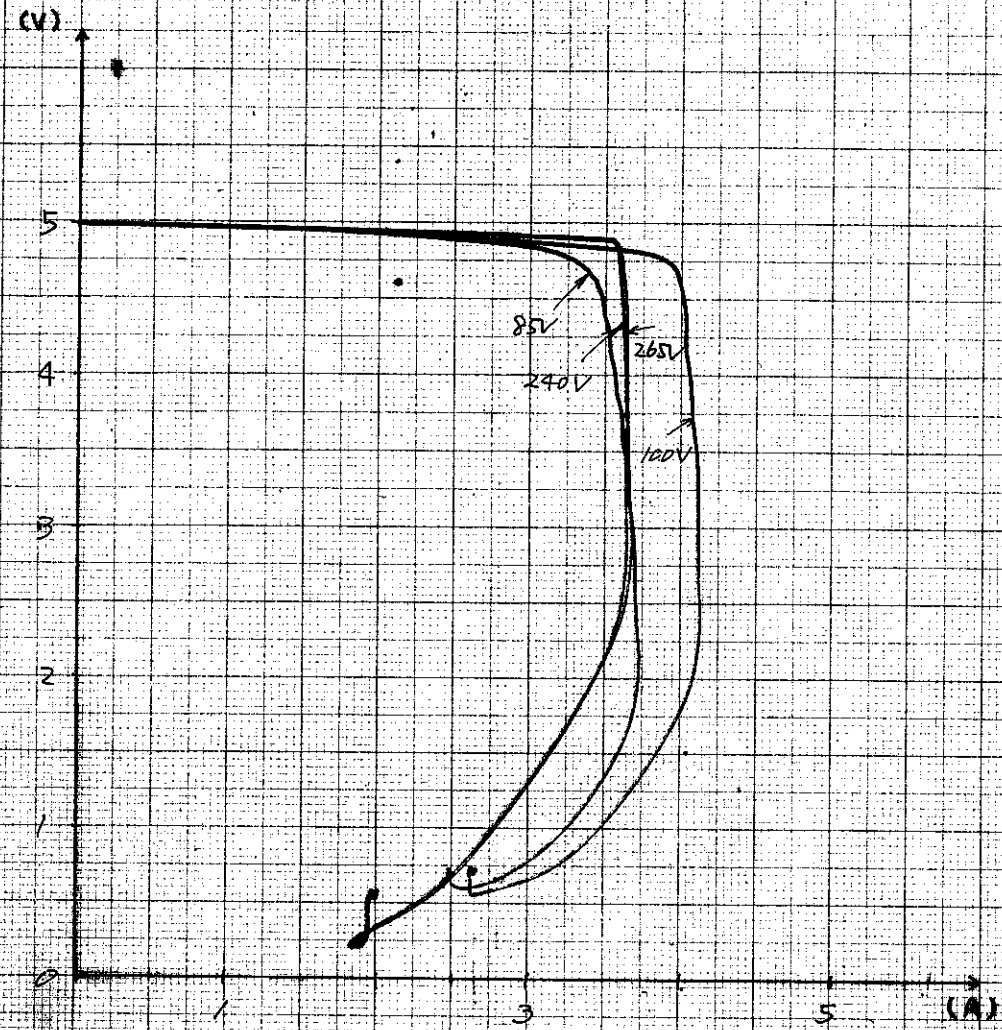
DATE: 04/11/5
TESTED BY: M.W

+5V

NOTE:

Ta = -20°C

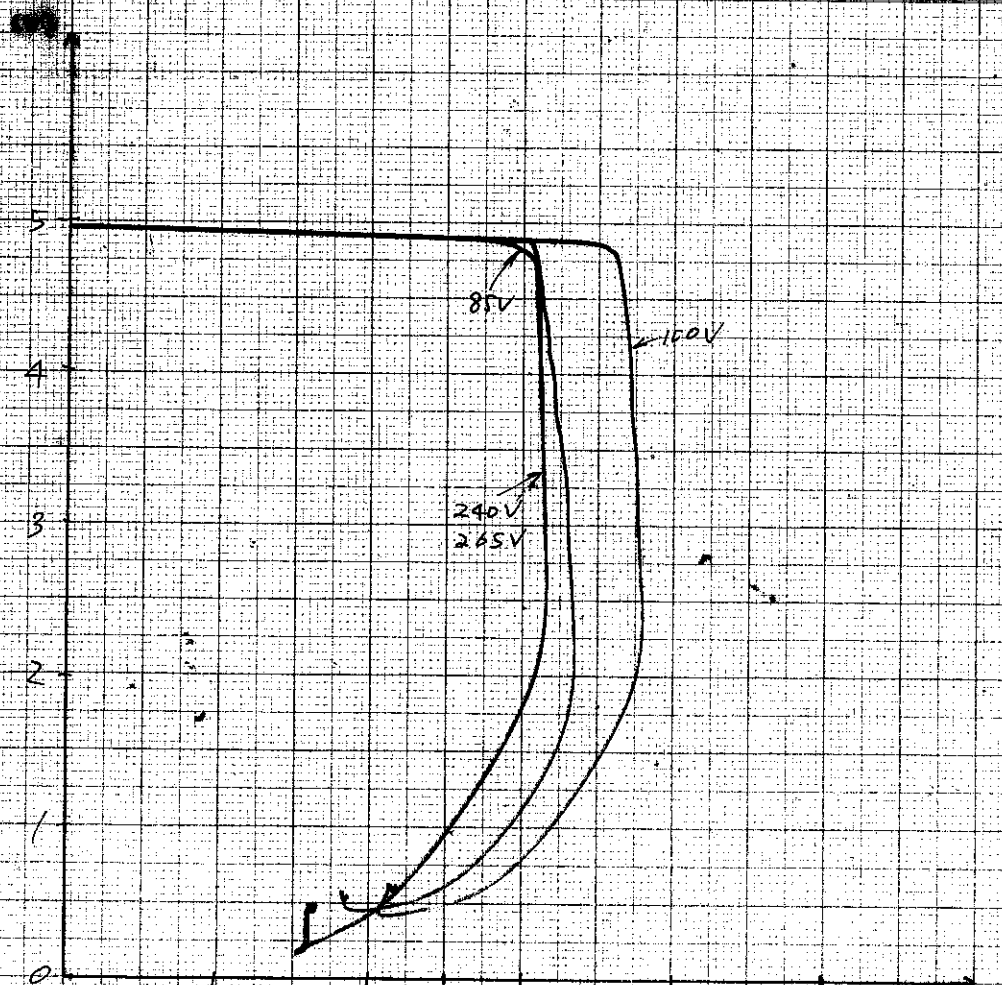
ALL TYP LOAD



NOTE:

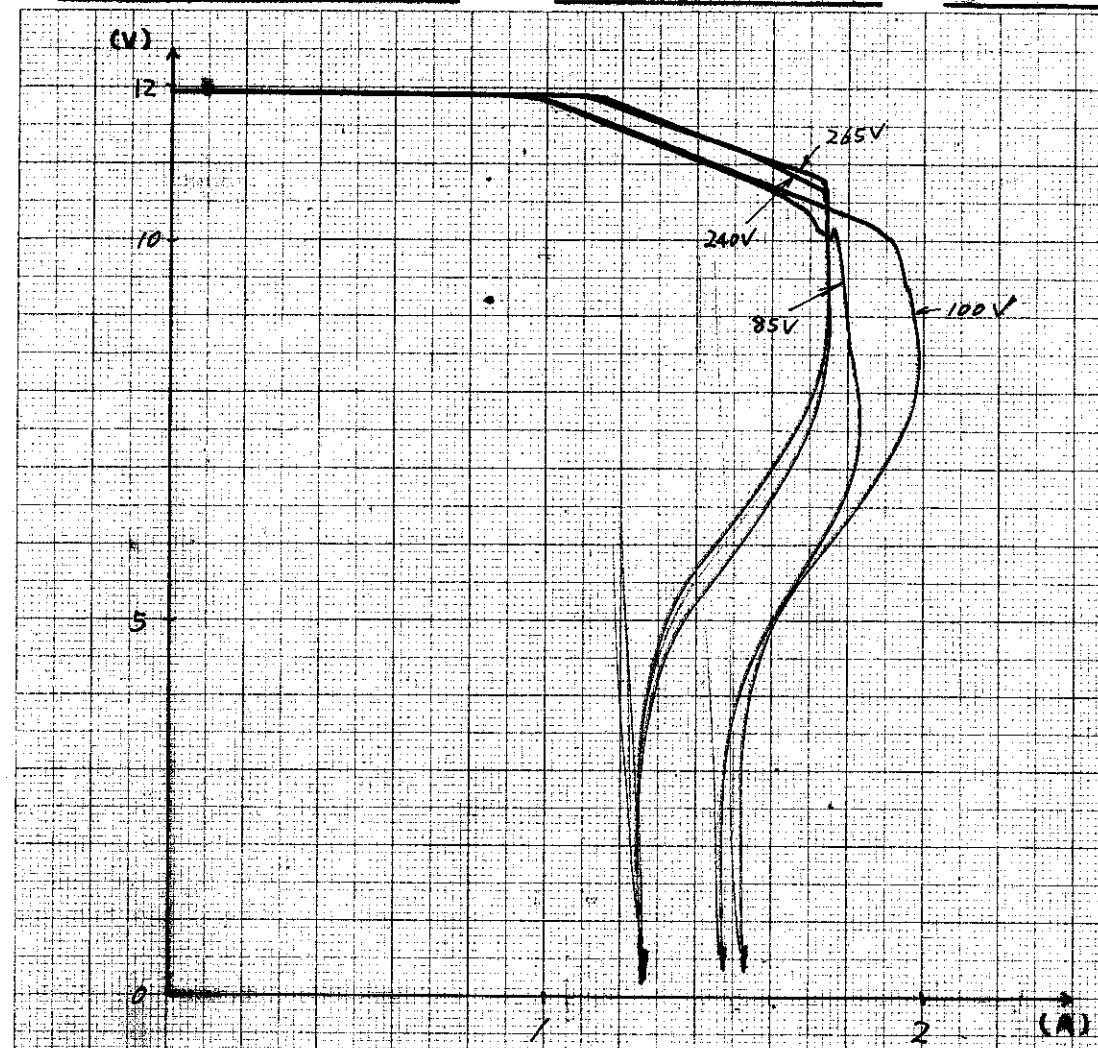
Ta = 60°C

ALL TYP LOAD



過電流保護 OVERCURRENT　　MODEL: MTW15-5121Z　　SER NO.

DATE: 04/11/5
TESTED BY: M.W

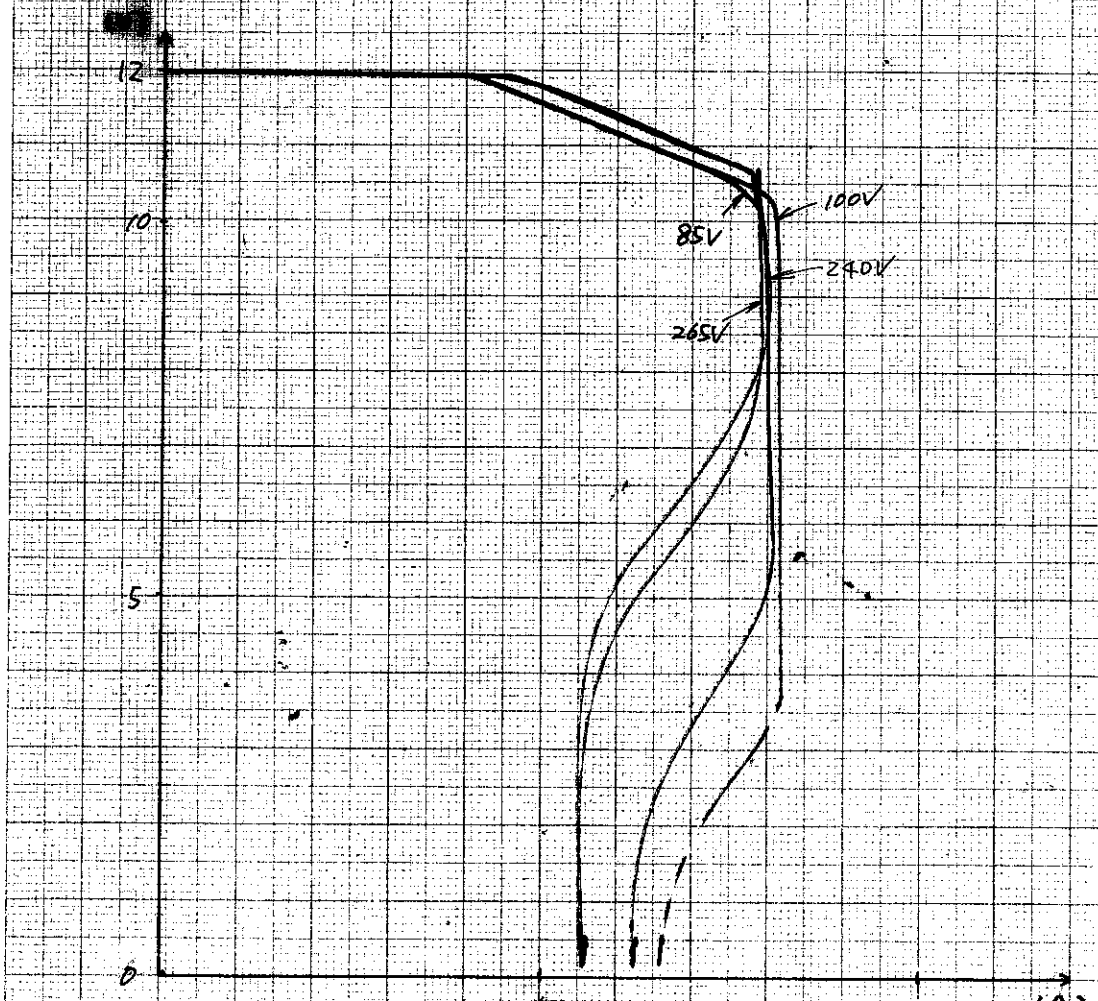


+12V

NOTE:

Ta = -20°C

ALL MIN LOAD



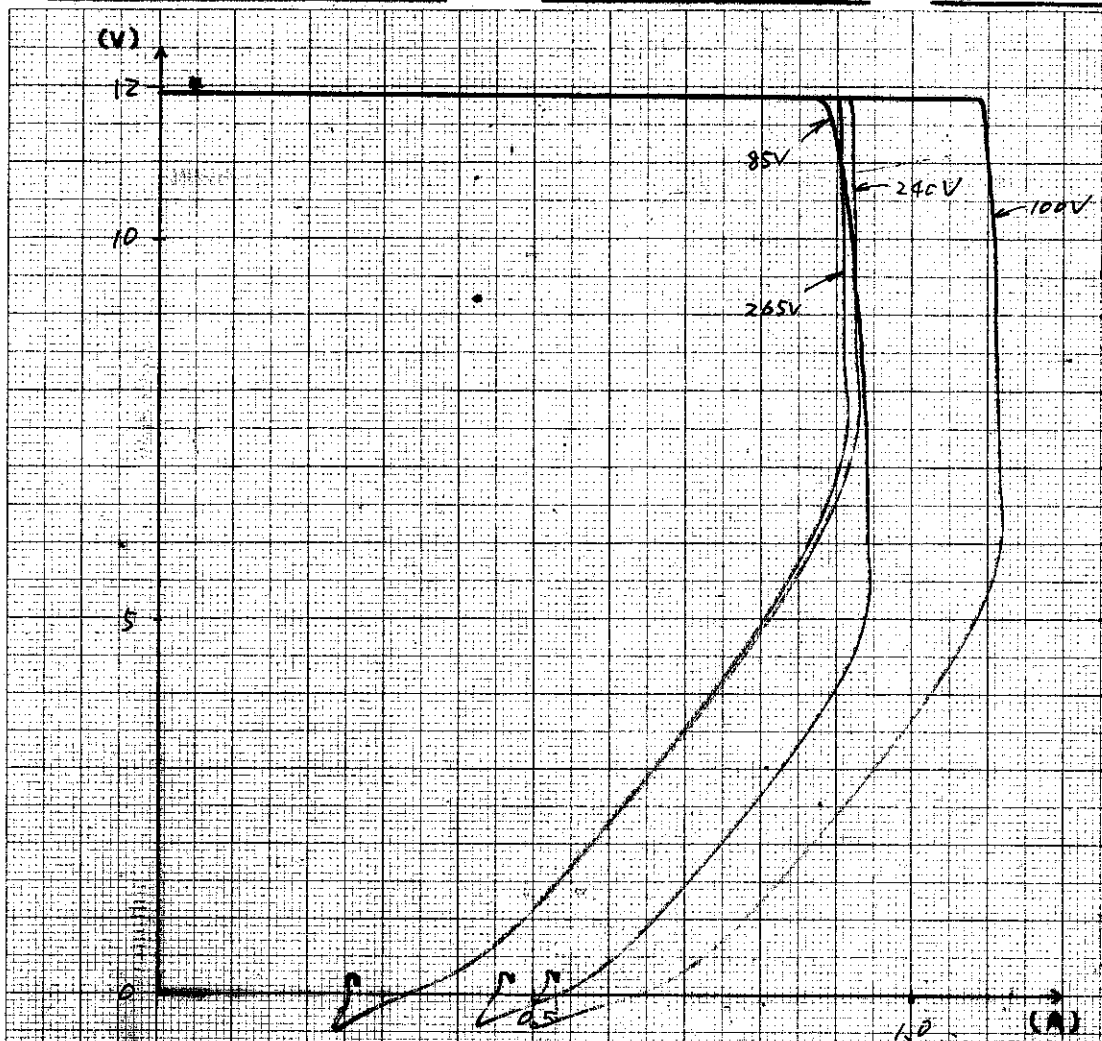
NOTE:

Ta = 60°C

ALL MIN LOAD

過電流保護 OVERCURRENT　　MODEL: MTW15-5/12/12　　SER NO.

DATE: 04/11/5
TESTED BY: M.W

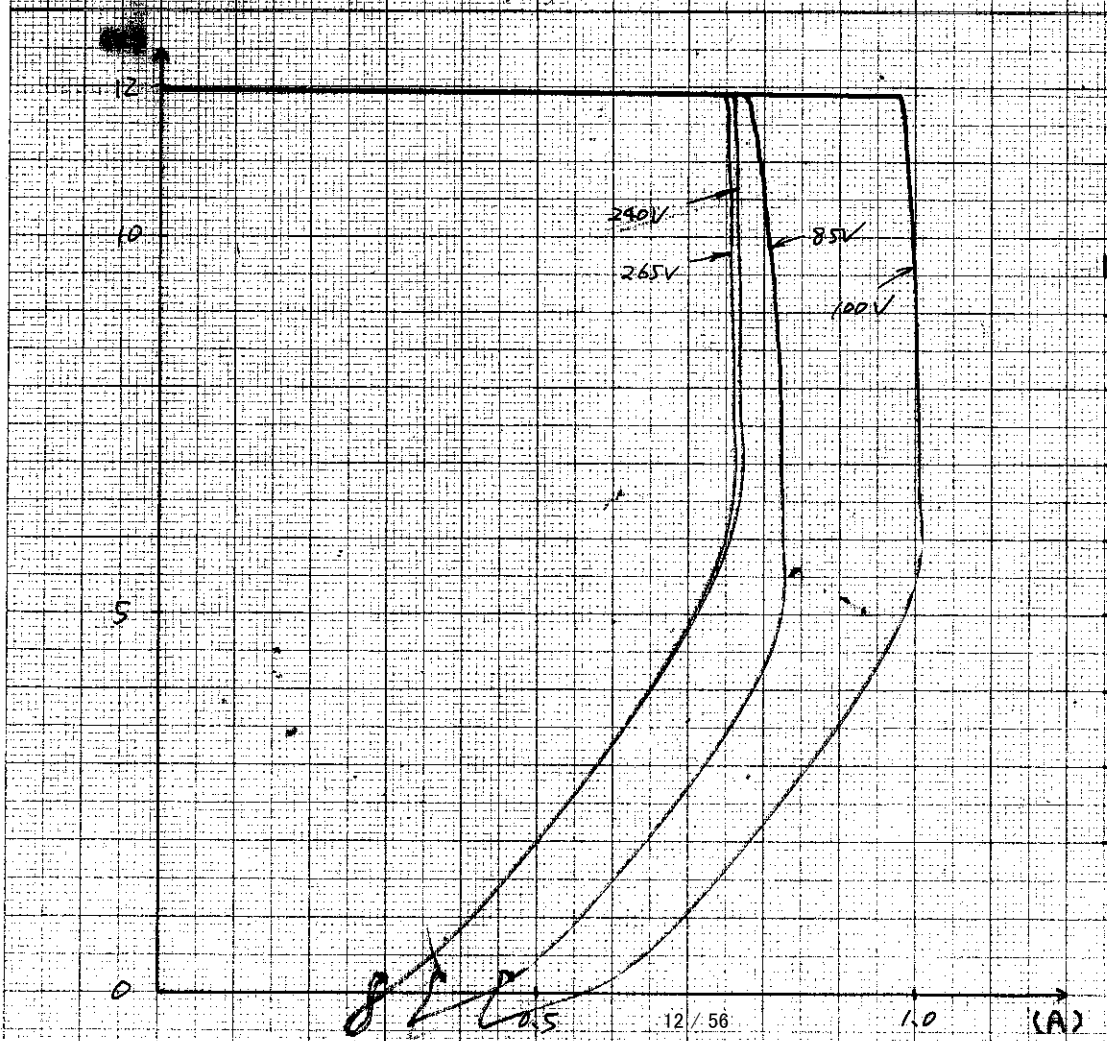


+12V

NOTE:

Ta = +20°C

ALL TYP LOAD

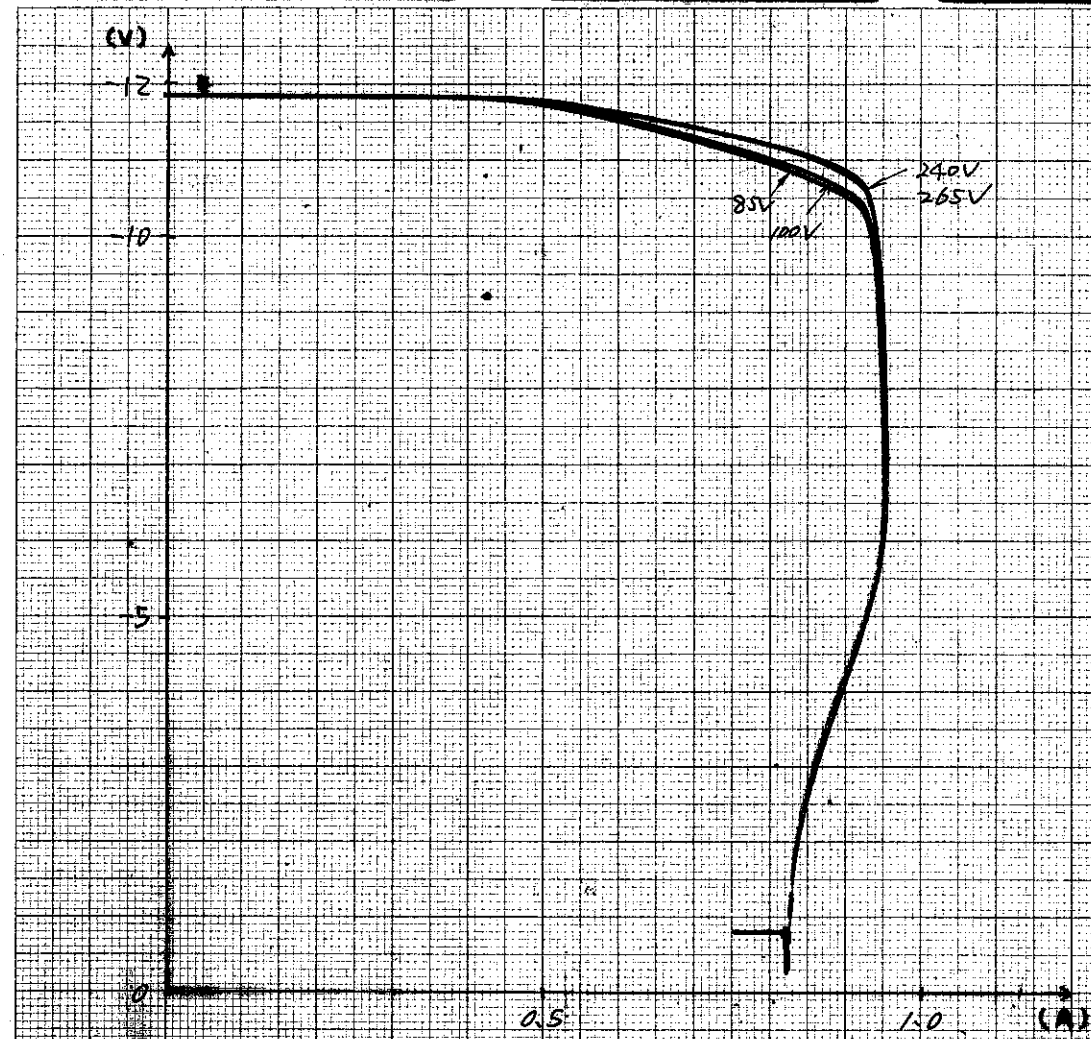


NOTE:

Ta = 60°C

ALL TYP LOAD

過電流保護 OVERCURRENT　　MODEL: MTW15-5I212　　SER NO.



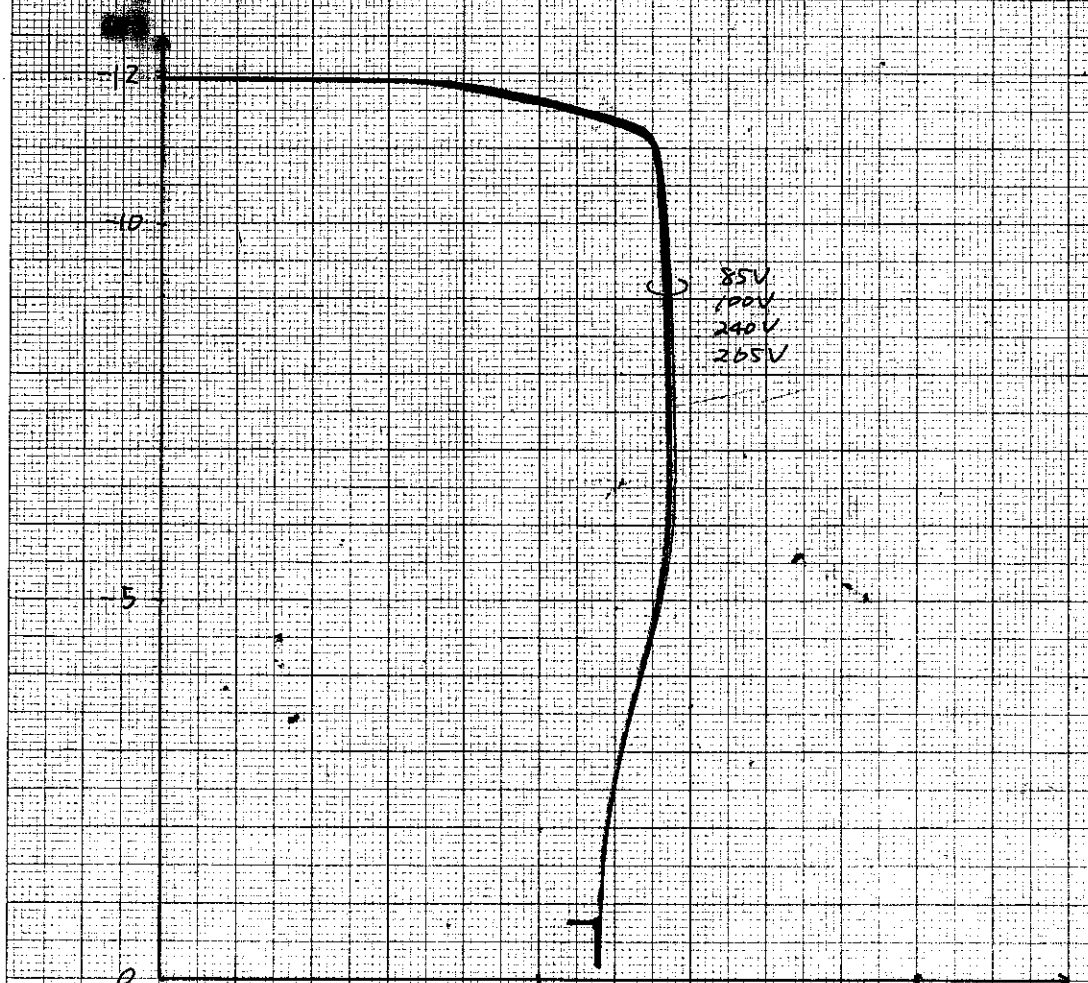
DATE: 04/11/5
TESTED BY: M.W

-12V

NOTE:

Ta = +20°C

ALL MIN LOAD



NOTE:

Ta = 60°C

ALL MIN LOAD

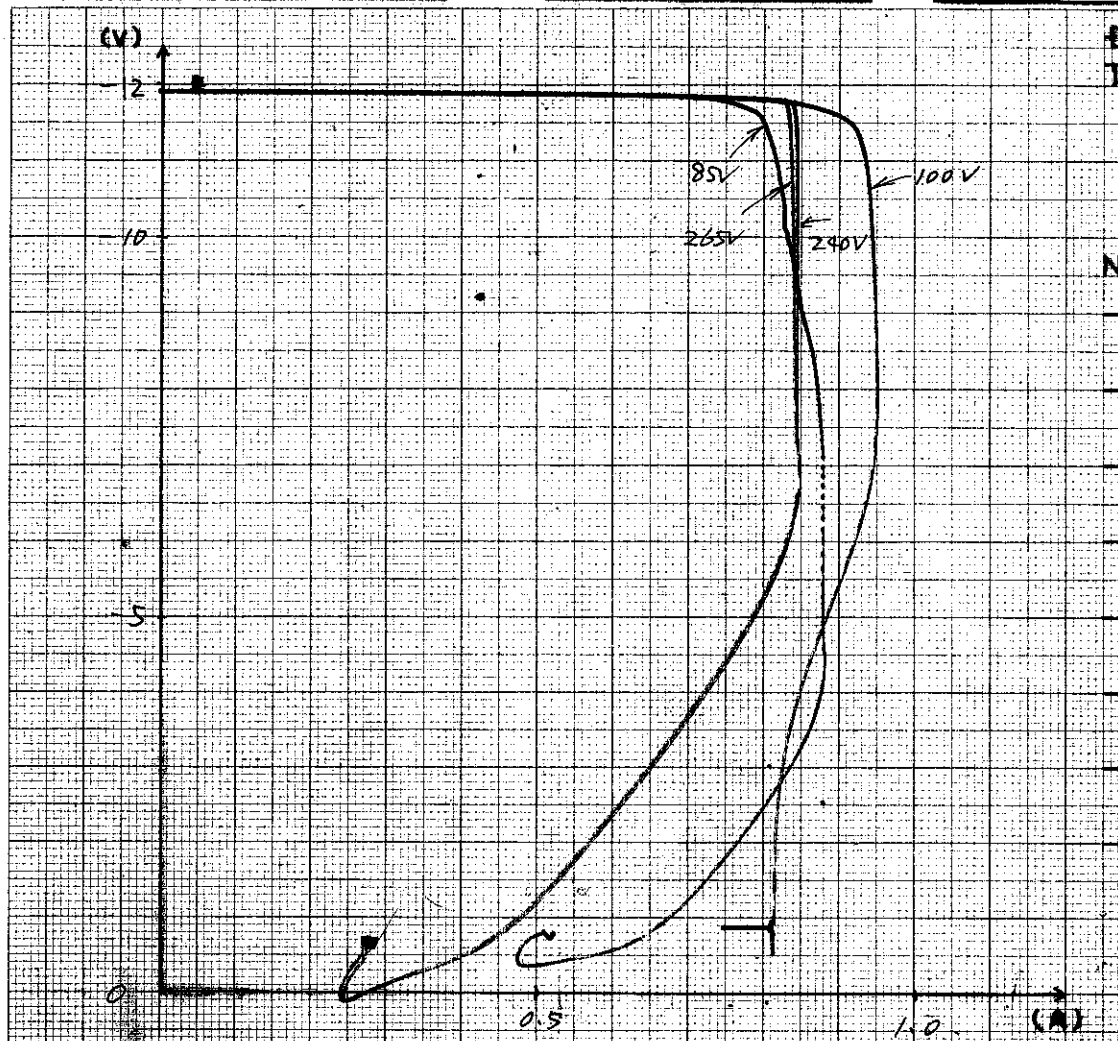
過電流保護 OVERCURRENT

MODEL: MTW15-5I212

SER NO.

DATE: 04/11/5

TESTED BY: M.W

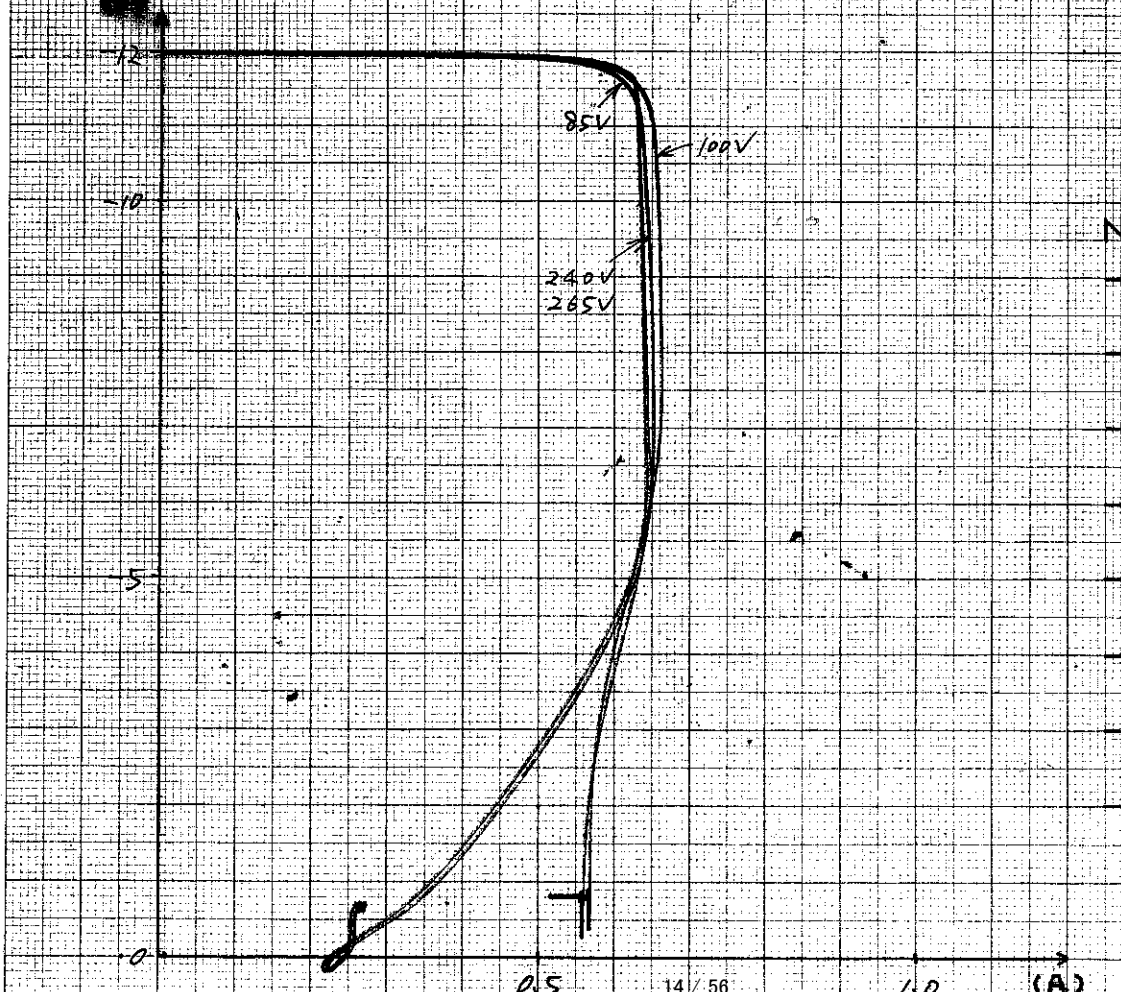


−12V

NOTE:

Ta = −20°C

ALL TYP LOAD



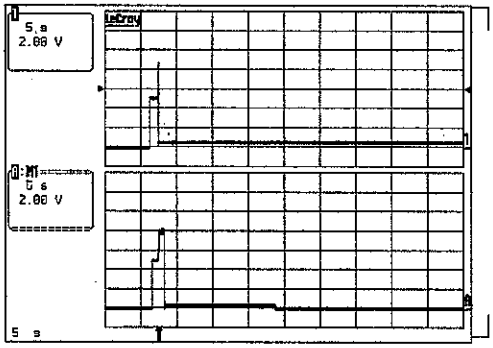
NOTE:

Ta = 60°C

ALL TYP LOAD

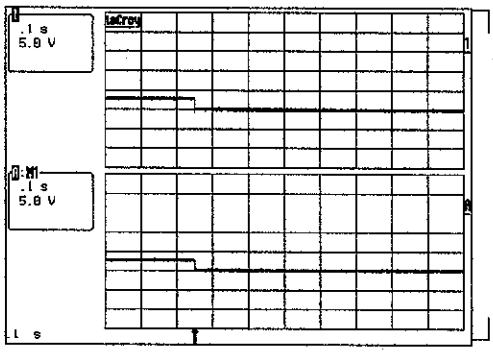
過電圧保護 OVERVOLTAGE PROTECTIC　MODEL　MTW15-51212　S/N:　DATE　2004/12/6　TESTED BY　S.Yoshihara

+5V OPEN SENSE (R62:OPEN)



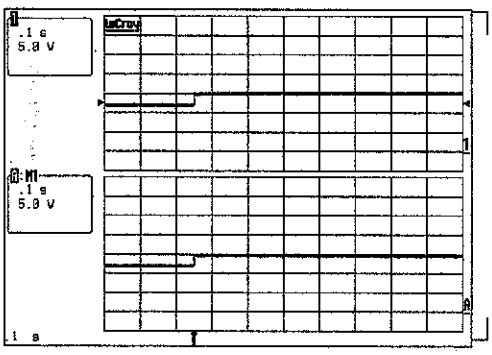
Vin=AC100V
+5V 0A
Vp= 8.75V
+12V=0.3A
-12V=0.2A
2V/DIV
+5V 2A
Vp= 8.3V
+12V=0.3A
-12V=0.2A
2V/DIV
5S/DIV

IC52 Vin-Vout SHORT



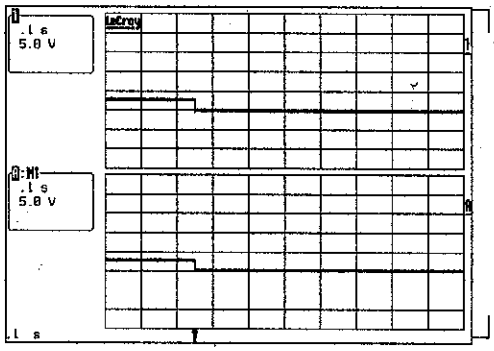
Vin=AC100V
-12V 0A
Vp= 15.7V
+5V=2.0A
+12V=0.3A
5V/DIV
-12V 0.2A
Vp= 15.3V
+5V=2.0A
+12V=0.3A
5V/DIV
0.1S/DIV

IC51 Vin-Vout SHORT



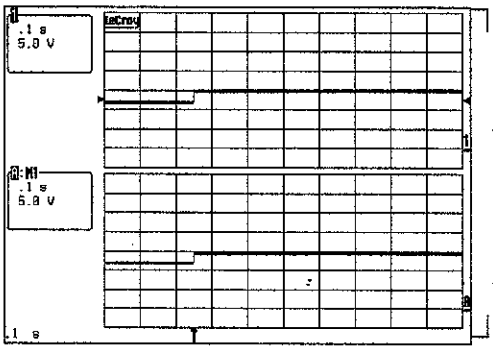
Vin=AC100V
+12V 0A
Vp= 15.6V
+5V=2.0A
-12V=0.2A
5V/DIV
+12V 0.3A
Vp= 15.3V
+5V=2.0A
-12V=0.2A
5V/DIV
0.1S/DIV

IC52 Vin-Vout SHORT



Vin=AC240V
-12V 0A
Vp= 15.7V
+5V=2.0A
+12V=0.3A
5V/DIV
-12V 0.2A
Vp= 15.3V
+5V=2.0A
+12V=0.3A
5V/DIV
0.1S/DIV

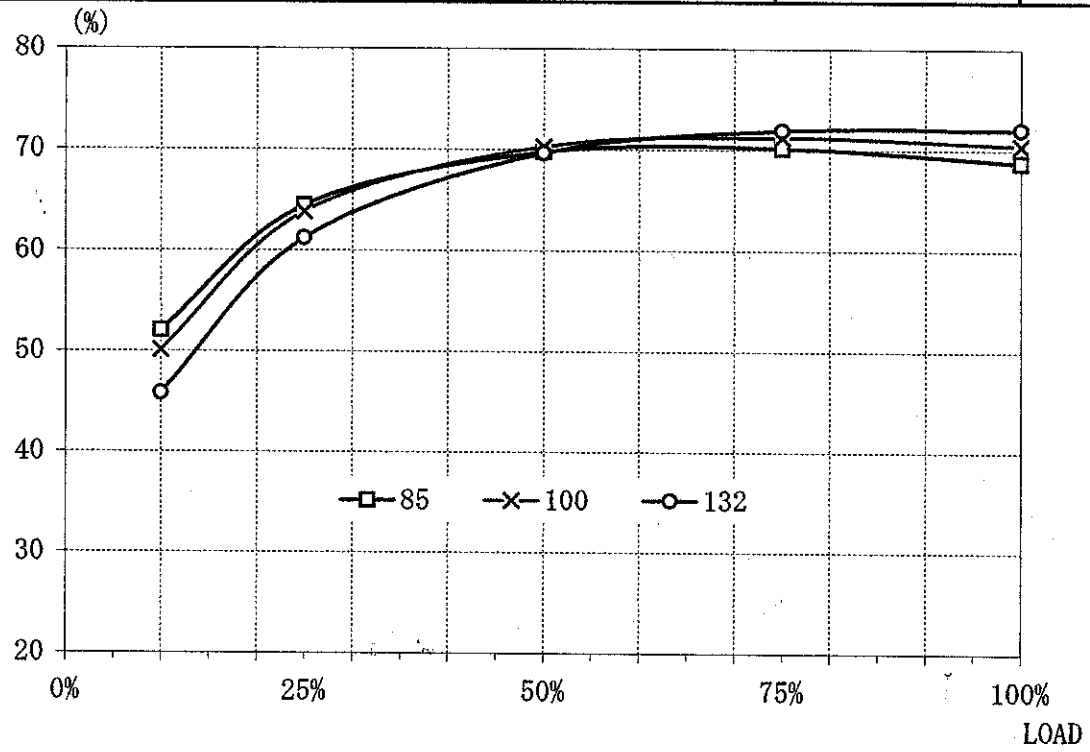
IC51 Vin-Vout SHORT



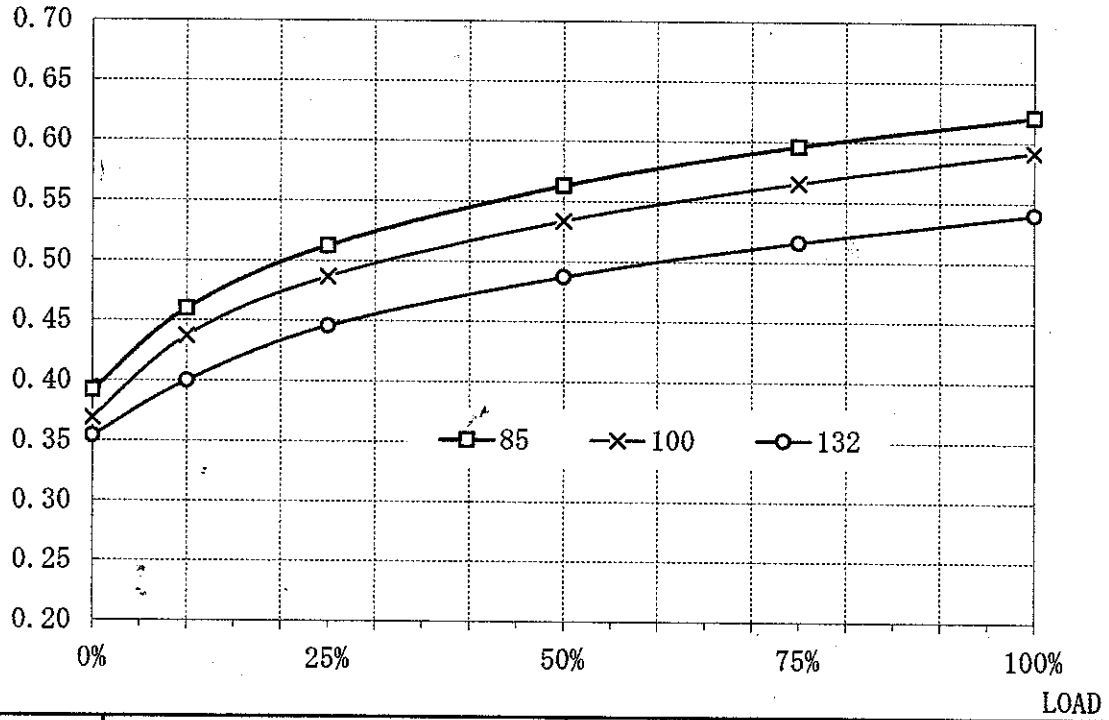
Vin=AC240V
+12V 0A
Vp= 15.6V
+5V=2.0A
-12V=0.2A
5V/DIV
+12V 0.3A
Vp= 15.2V
+5V=2.0A
-12V=0.2A
5V/DIV
0.1S/DIV

MODEL
MTW15-51212

効　　率 EFFICIENCY	SOURCE	LOAD	TEMP.	
	AC85V～AC132V	10～100%	25℃	



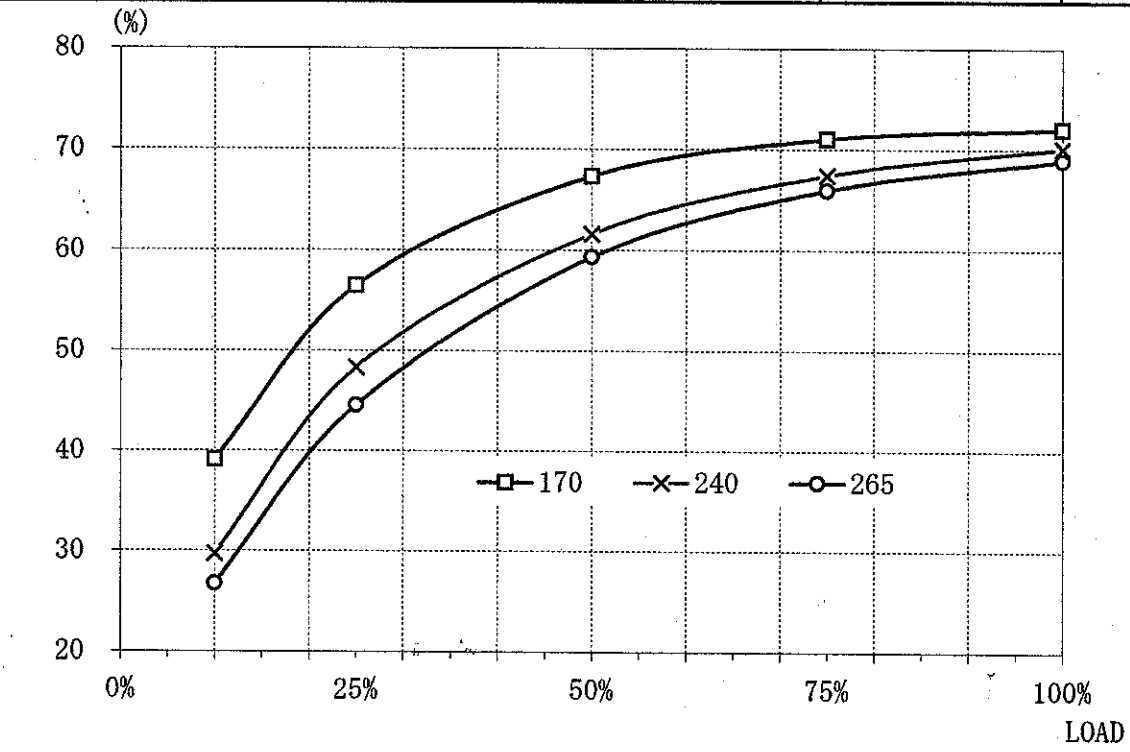
力　　率 POWER FACTOR	SOURCE	LOAD	TEMP.	
	AC85V～AC132V	0～100%	25℃	



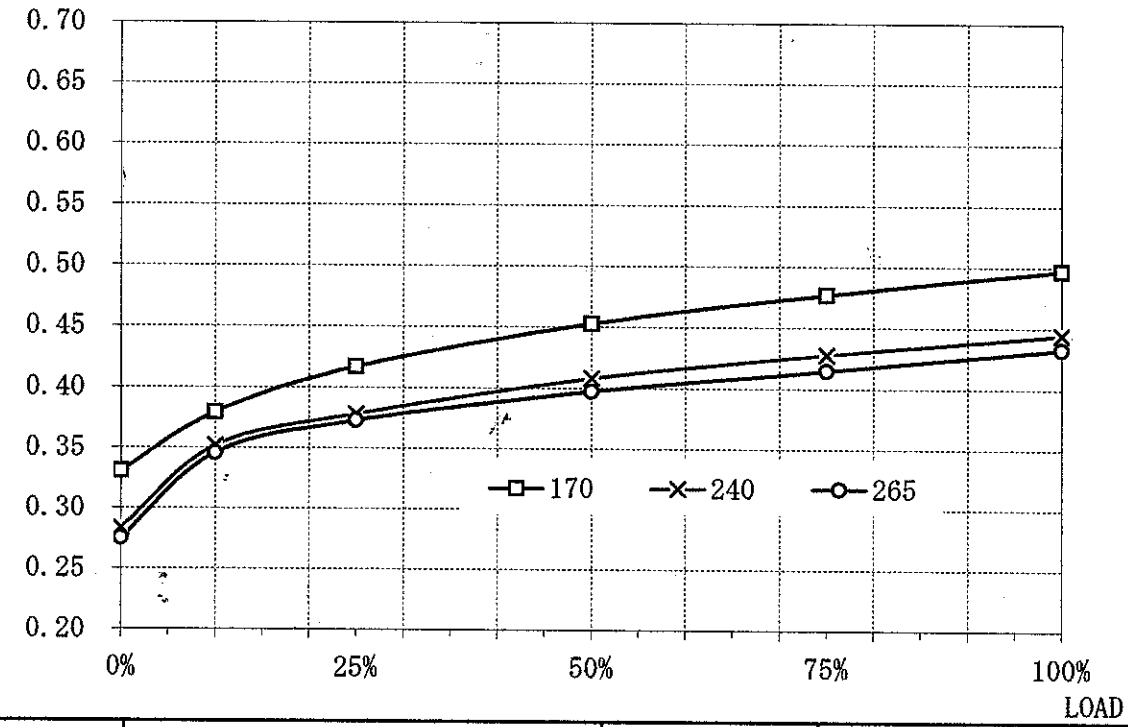
SER. NO.	OUT PUT			DATE	TESTED BY	
			16W	04/12/1	M. WAKAYAMA	

MODEL
MTW15-51212

効　　率 EFFICIENCY	SOURCE	LOAD	TEMP.	
	AC170V～AC265V	10～100%	25℃	



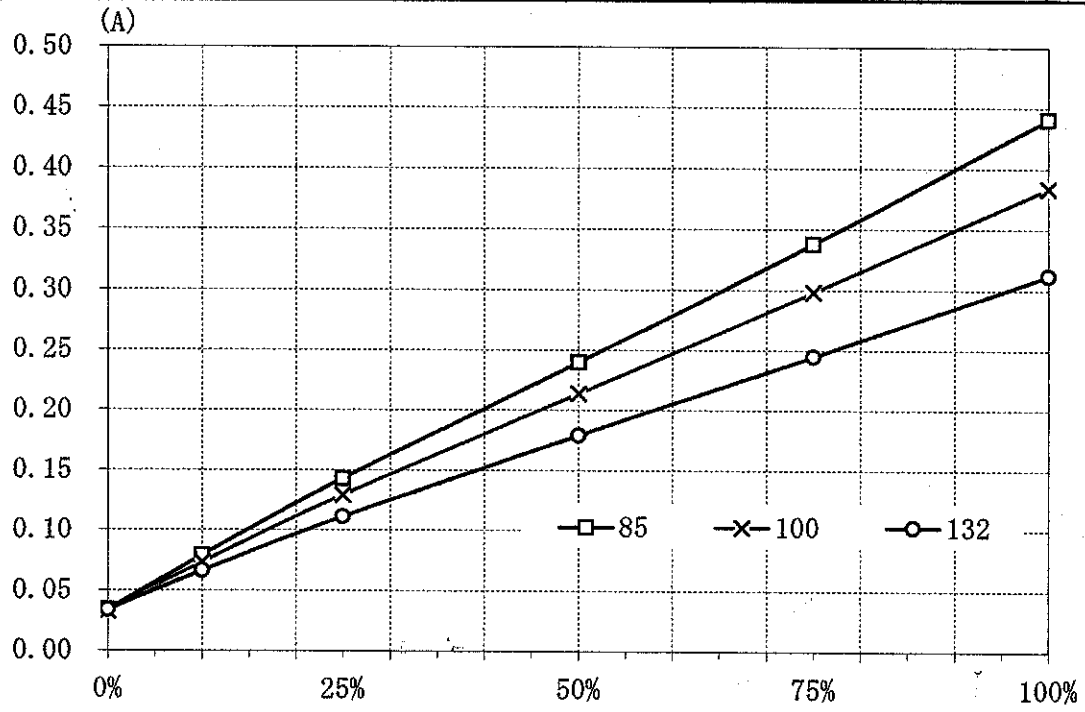
力　　率 POWER FACTOR	SOURCE	LOAD	TEMP.	
	AC170V～AC265V	0～100%	25℃	



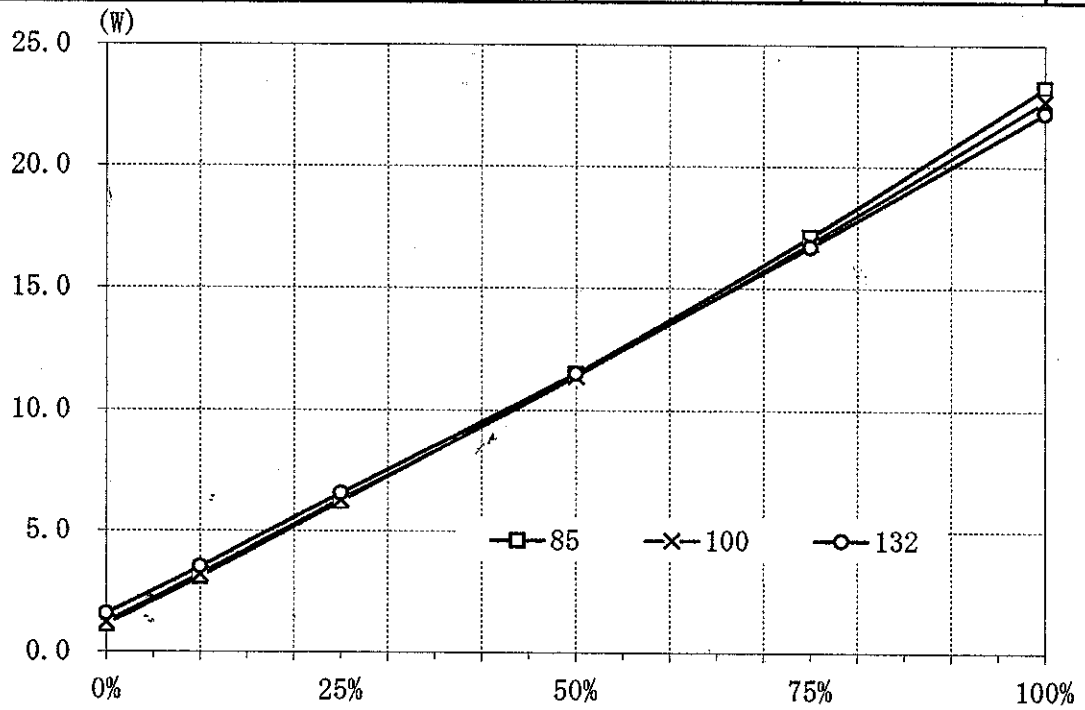
SER. NO.	OUT PUT			DATE	TESTED BY	
			16W	04/12/1	M. WAKAYAMA	

MODEL
MTW15-51212

定常入力電流 INPUT CURRENT	SOURCE	LOAD	TEMP.	
	AC85V～AC132V	0～100%	25℃	



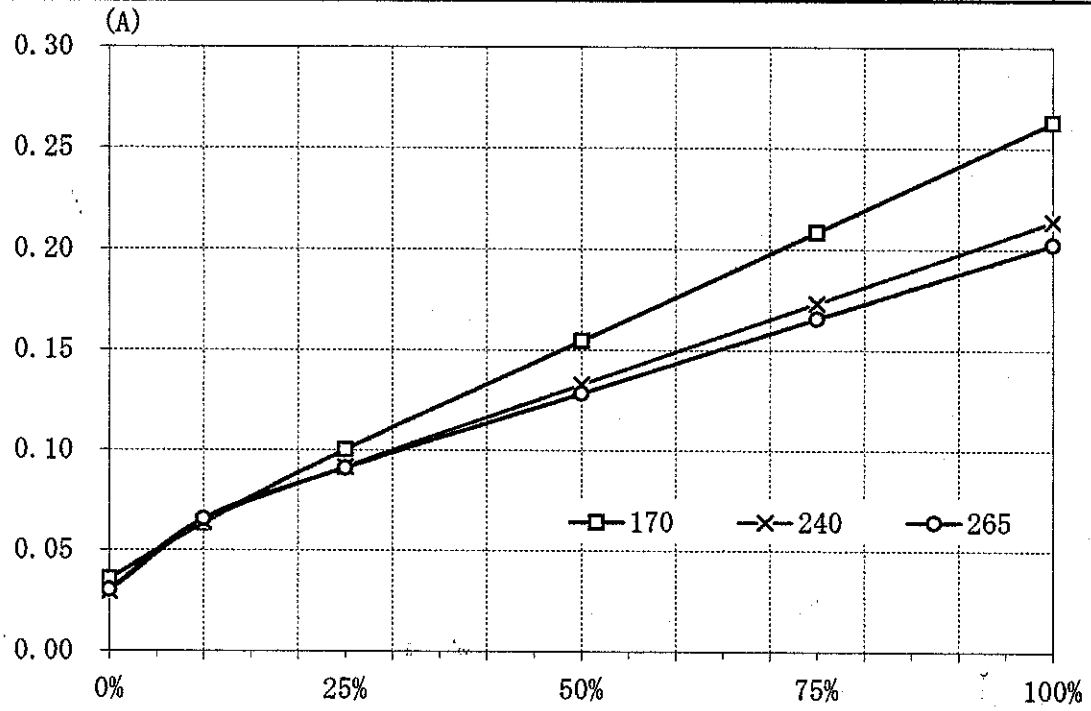
入力電力 INPUT POWER	SOURCE	LOAD	TEMP.	
	AC85V～AC132V	0～100%	25℃	



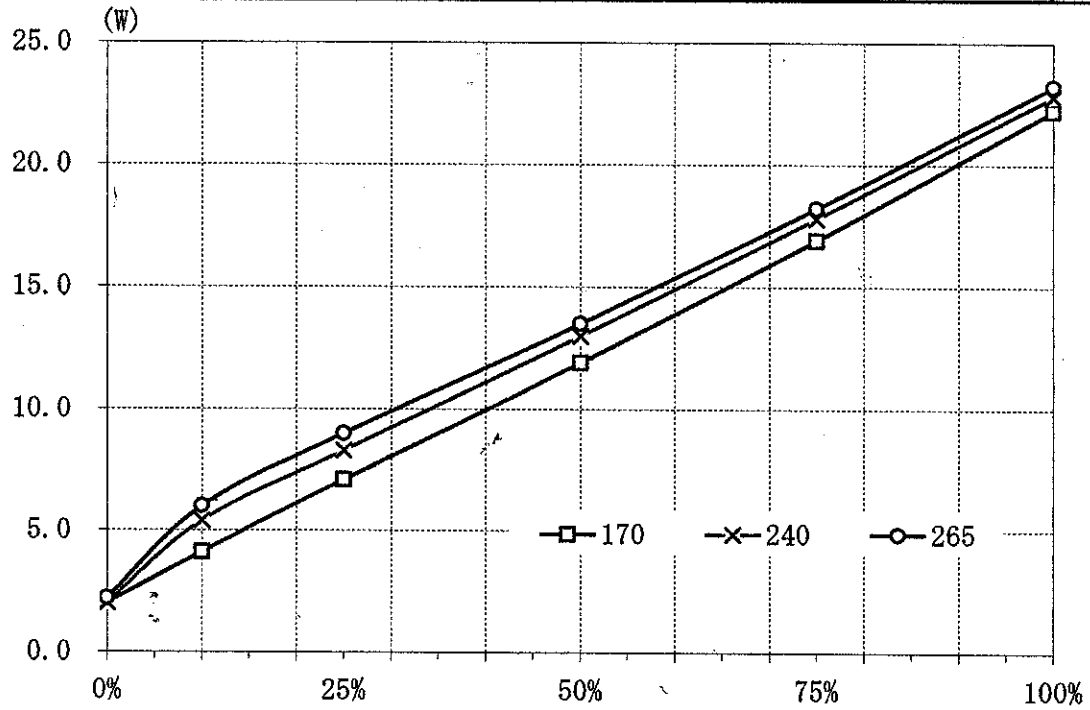
SER. NO.	OUT PUT			DATE	TESTED BY	
			16W	04/12/1	M. WAKAYAMA	

MODEL
MTW15-51212

定常入力電流 INPUT CURRENT	SOURCE	LOAD	TEMP.	
	AC170V～AC265V	0～100%	25℃	



入力電力 INPUT POWER	SOURCE	LOAD	TEMP.	
	AC170V～AC265V	0～100%	25℃	



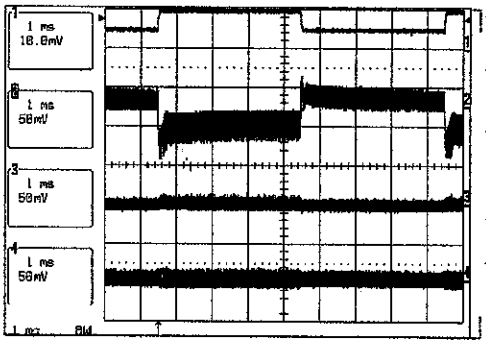
SER. NO.	OUT PUT			DATE	TESTED BY	
			16W	04/12/1	M. WAKAYAMA	

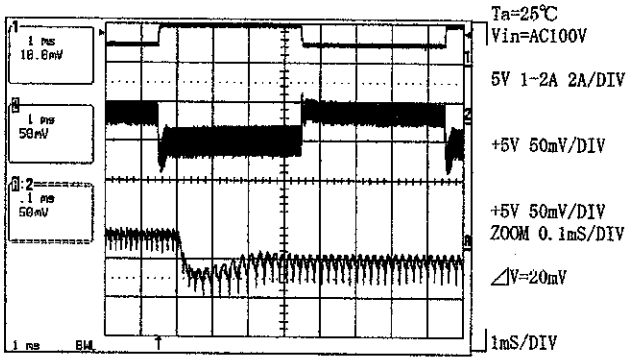
DATE: 04.10.28

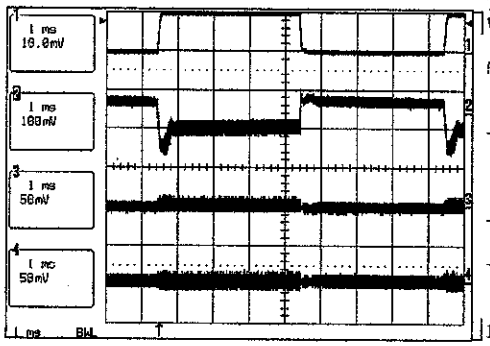
負荷急変-1 TRANSIENT RESPONSE-1 MODEL MTW15-51212 S/N: TESTED BY M.Wakayama

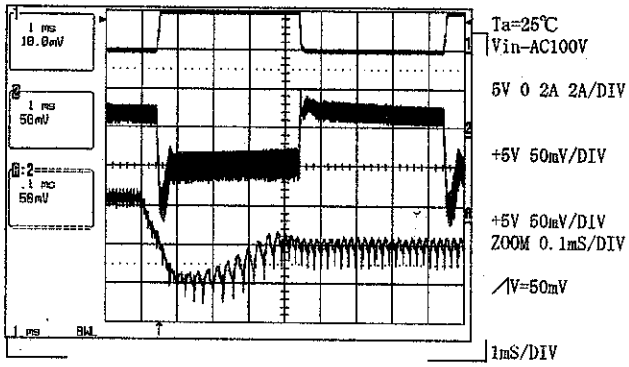
CC-MODE

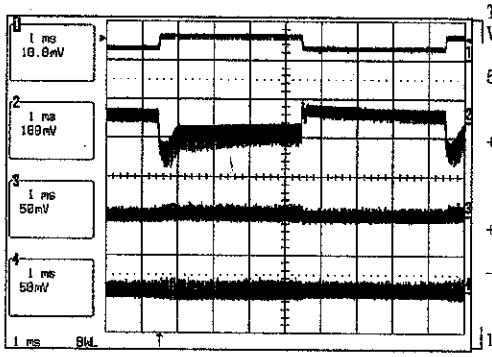
Vin= AC100V LOAD= +5V:50%-100%, 0%-100%, 1/2Peak-Peak, 0-Peak, +12V:0.3A -12V:0.2A

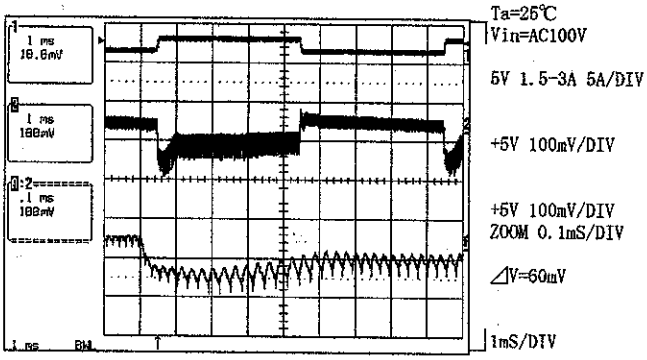


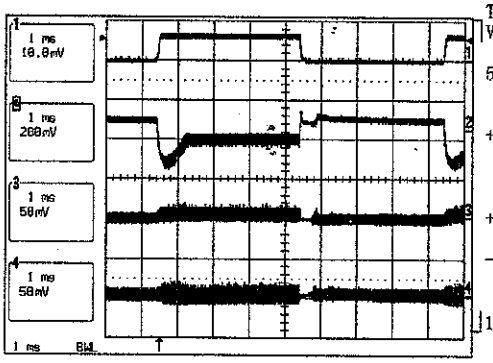


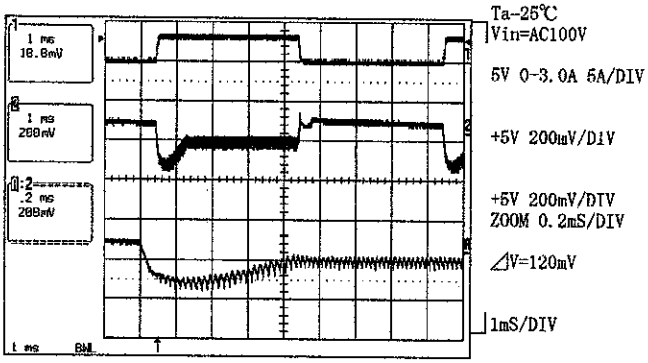










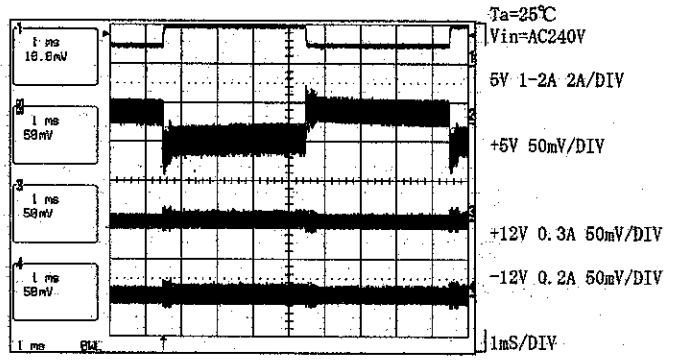


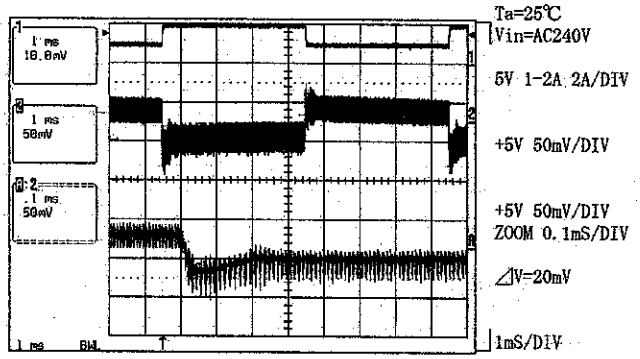
DATE: 04.10.28

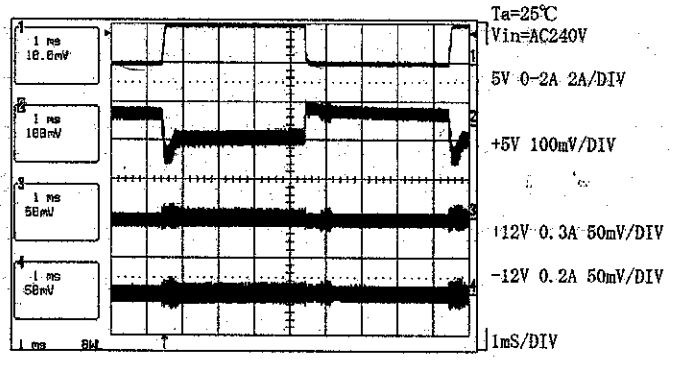
負荷急変-2 TRANSIENT RESPONSE-2 MODEL MTW15－51212 S/N: TESTED BY M.Wakayama

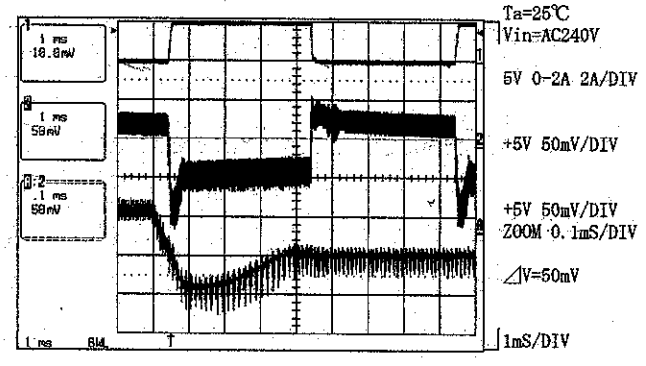
CC-MODE

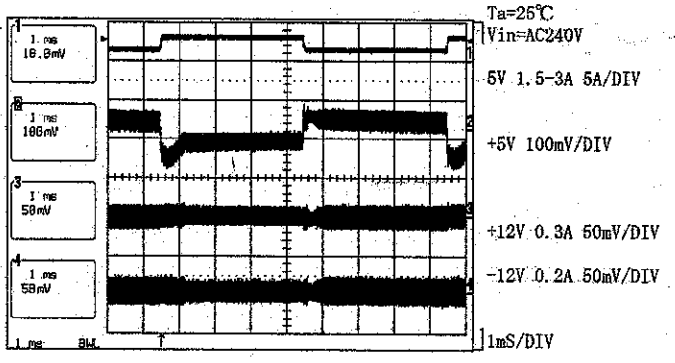
Vin= AC240V LOAD= +5V:50%-100%,0%-100%,1/2Peak-Peak,0-Peak, +12V:1.2A -12V:0.3A

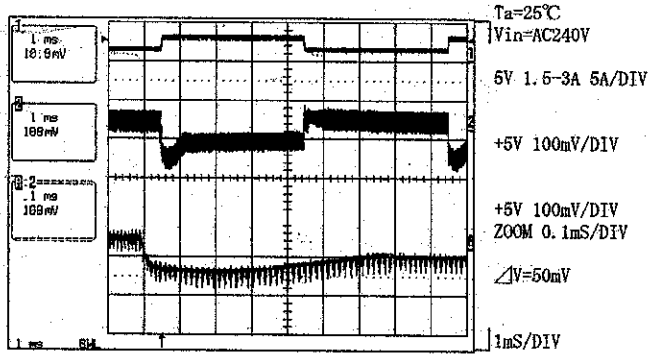


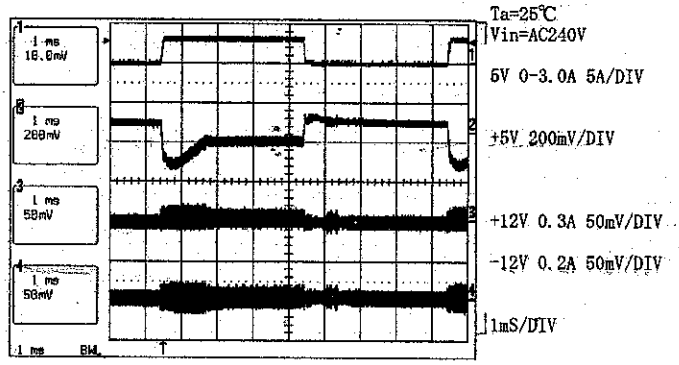


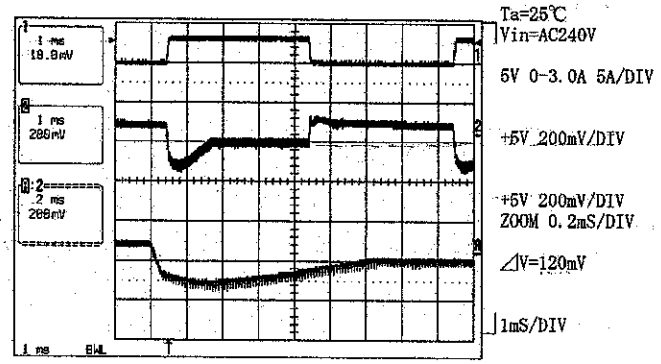










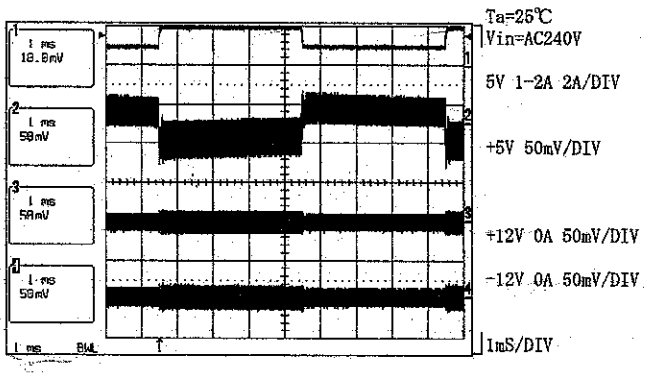


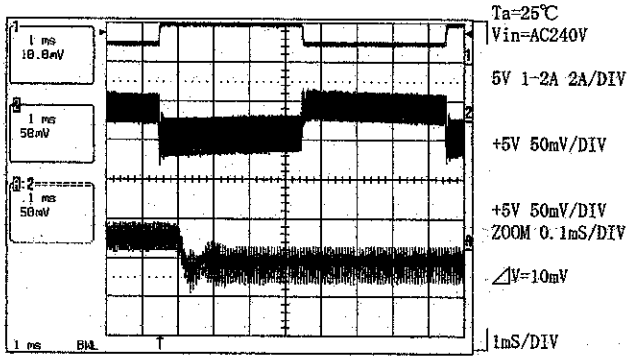
DATE: 04.10.28

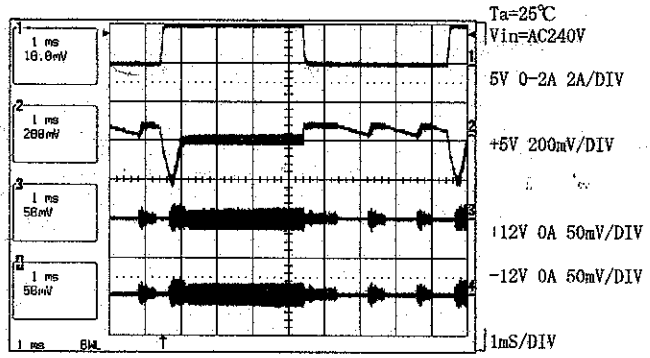
負荷急変-3 TRANSIENT RESPONSE-3 MODEL MTW15-51212 S/N : 49400003F TESTED BY M.Wakayama

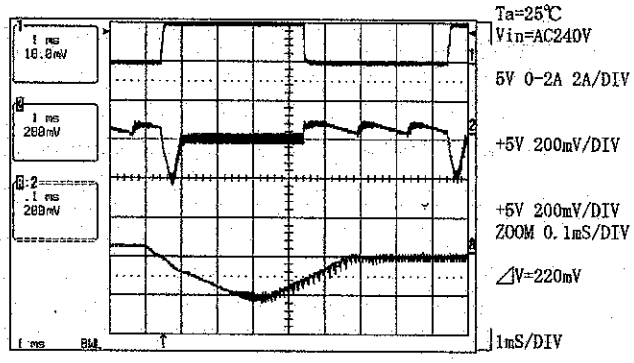
CC-MODE

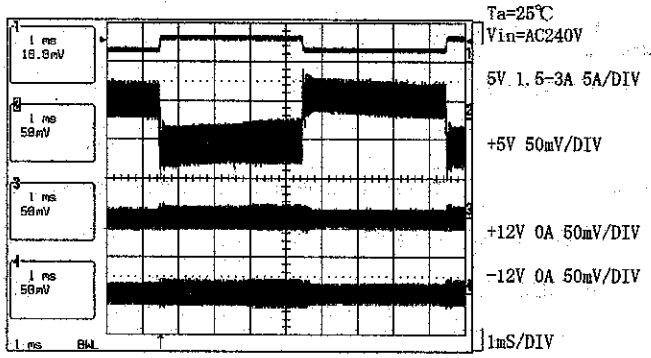
Vin= AC240V LOAD= +5V:50%-100%, 0%-100%, 1/2Peak-Peak, 0-Peak, +12V:0A -12V:0A

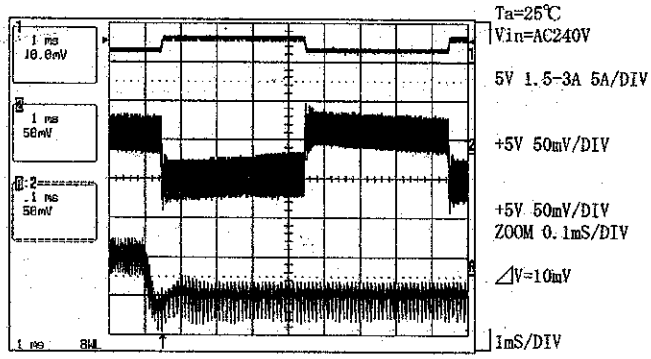


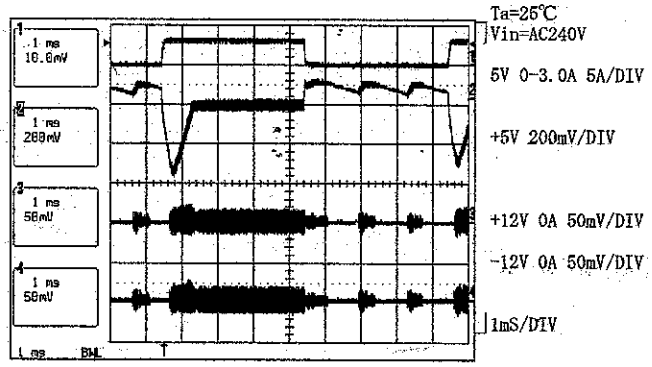


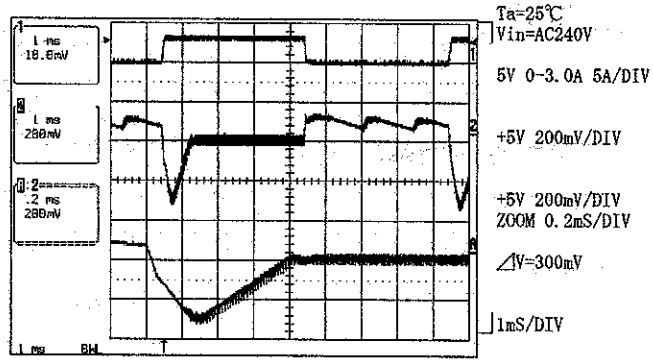












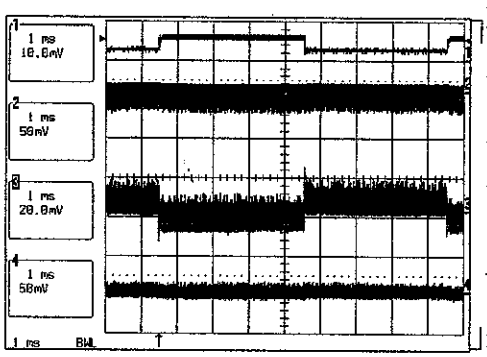
負荷急変-4　TRANSIENT RESPONSE-4　MODEL　MTW15－51212　S/N：

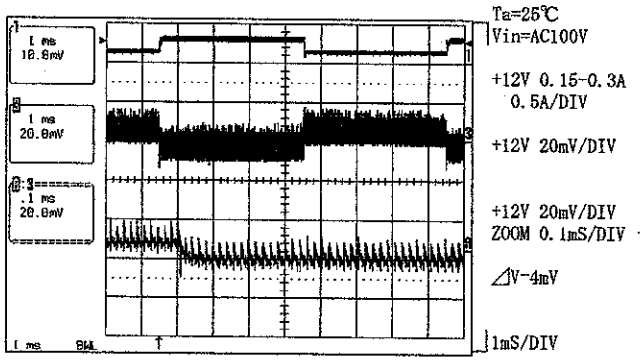
DATE: 04.10.28

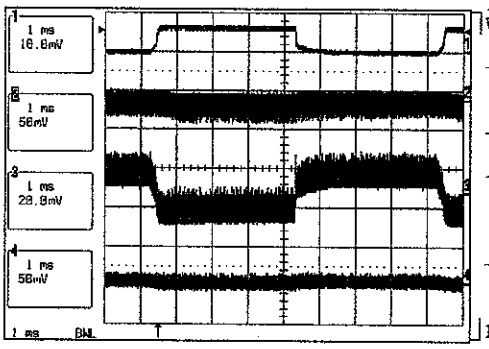
TESTED BY　M.Wakayama

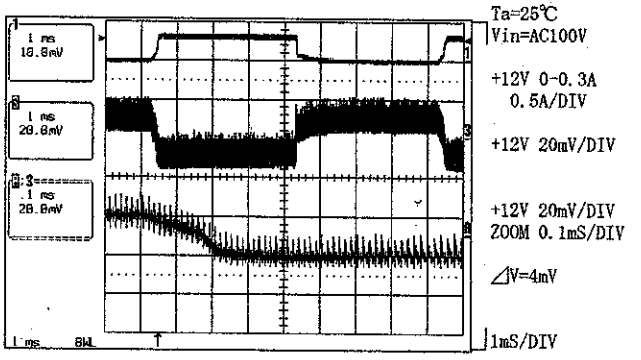
CC-MODE

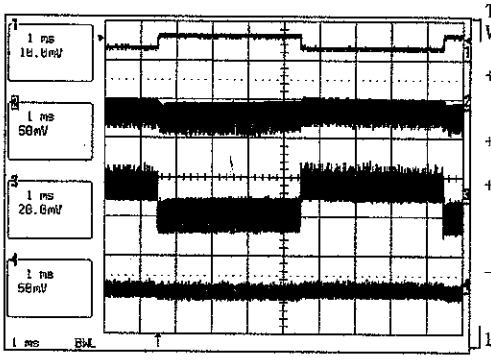
Vin= AC100V　LOAD= +5V:2.0A　+12V:50%-100%, 0%-100%, 1/2Peak-Peak, 0-Peak,　-12V:0.2A

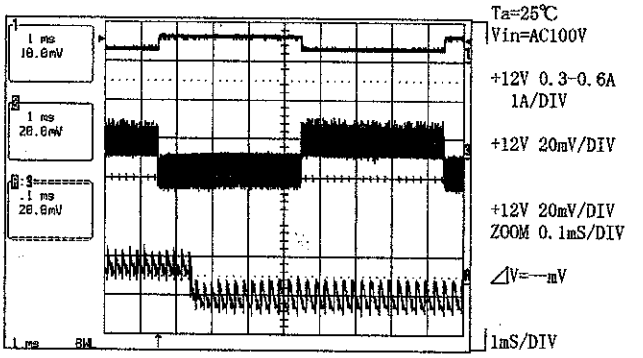


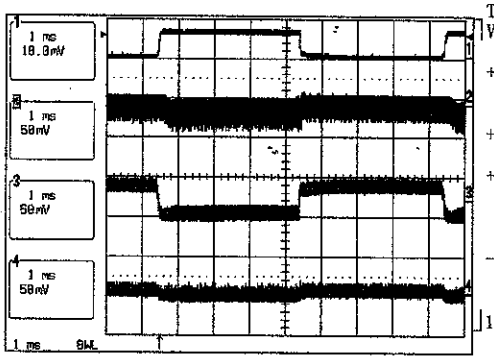


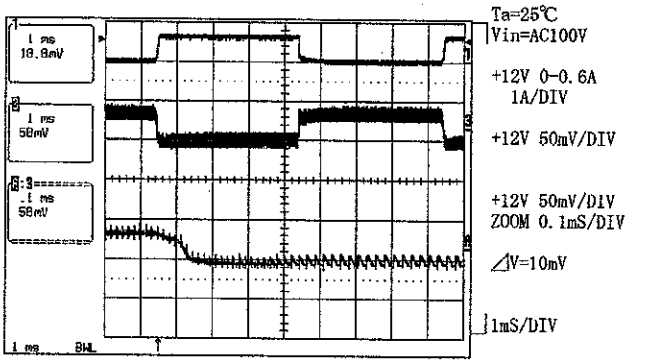










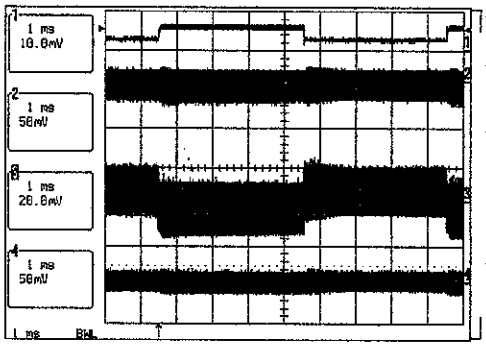


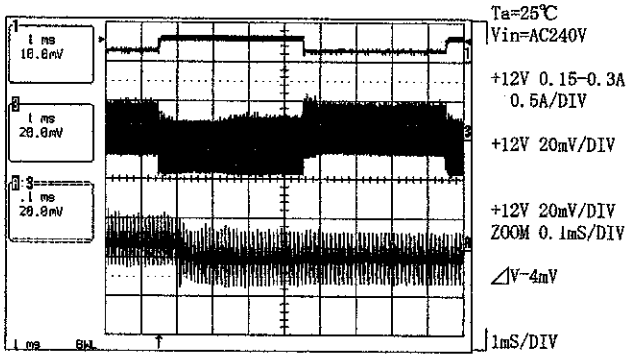
DATE: 04.10.28

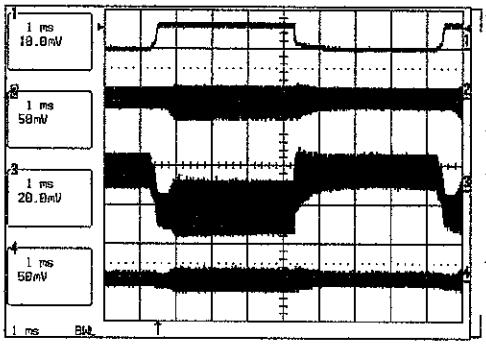
負荷急変-5 TRANSIENT RESPONSE-5 MODEL MTW15-51212 S/N: TESTED BY M.Wakayama

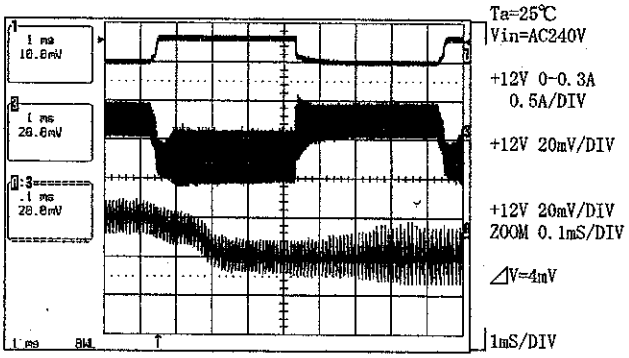
CC-MODE

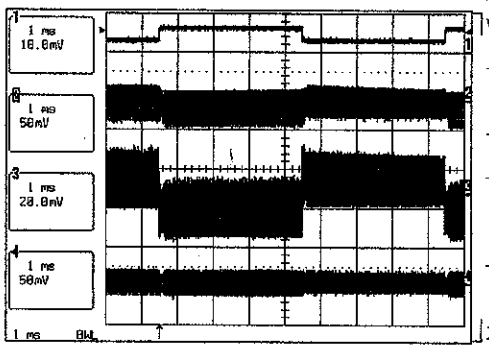
Vin= AC240V LOAD= +5V:2.0A +12V:50%-100%, 0%-100%, 1/2Peak-Peak, 0-Peak, -12V:0.2A

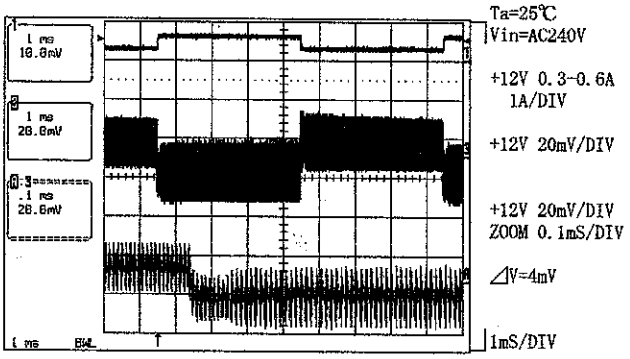


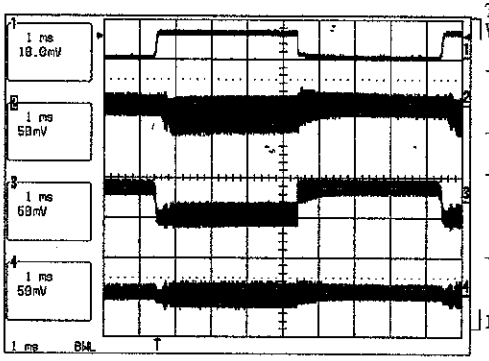


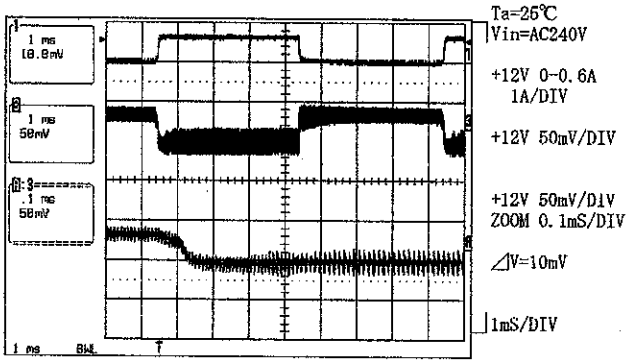










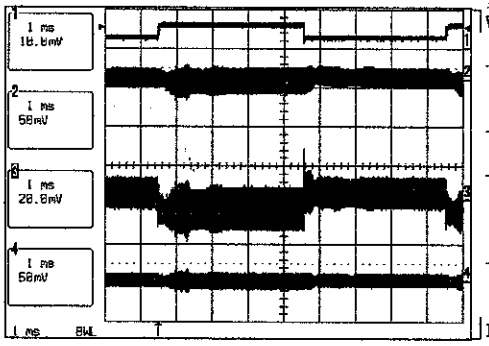


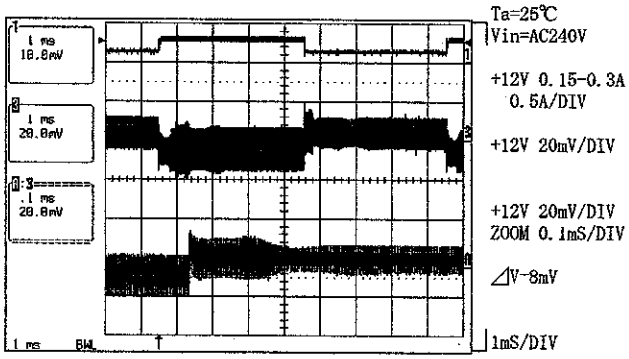
DATE: 04.10.28

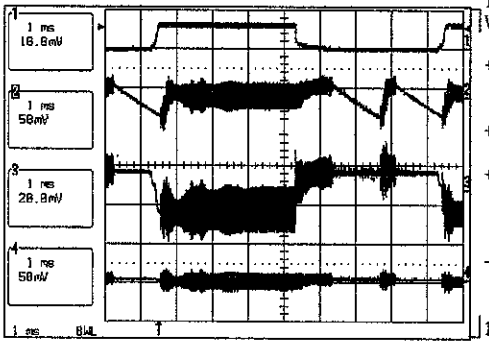
負荷急変-6 TRANSIENT RESPONSE-6 MODEL MTW15－51212 S/N: TESTED BY M.Wakayama

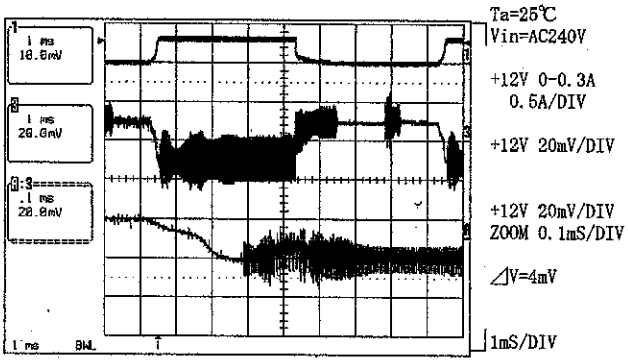
CC-MODE

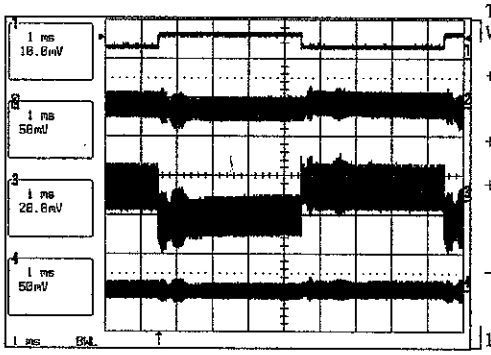
Vin= AC240V LOAD= +5V:0A +12V:50%-100%, 0%-100%, 1/2Peak-Peak, 0-Peak, -12V:0A

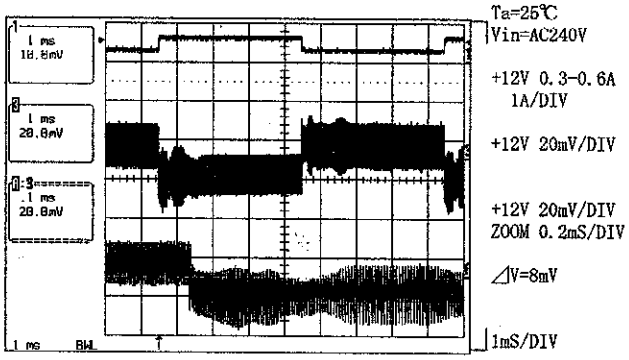


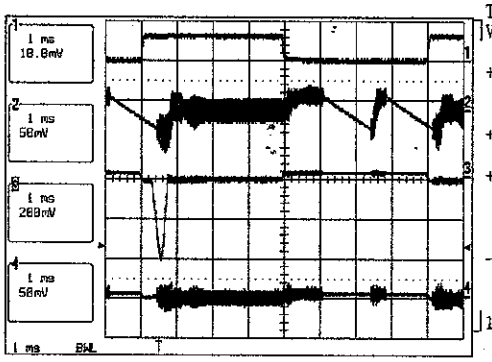


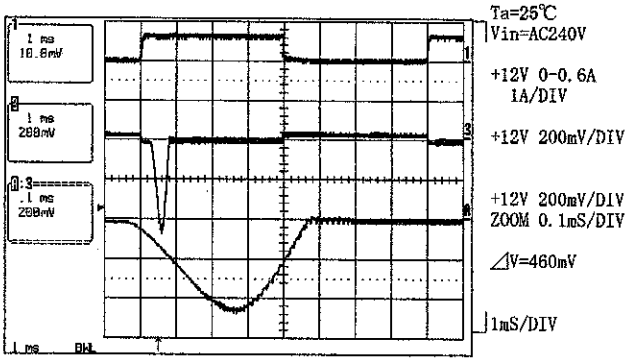










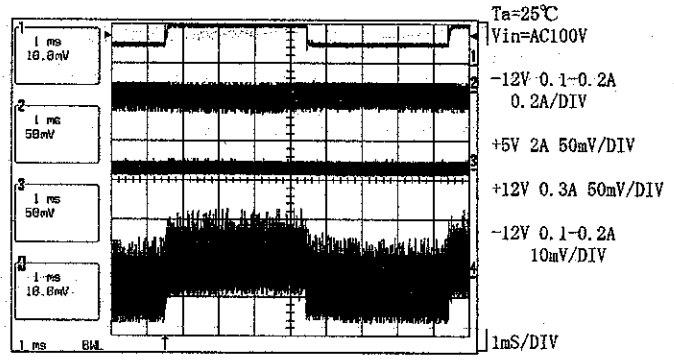


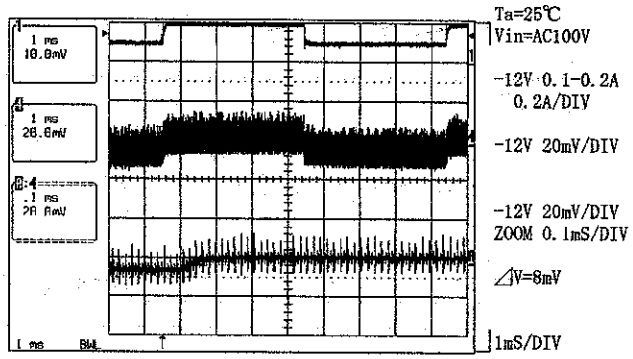
DATE: 04.10.28

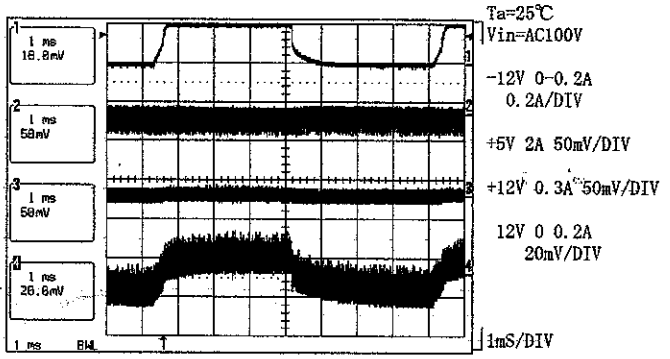
負荷急変-7 TRANSIENT RESPONSE-7 MODEL MTW15-51212 S/N: TESTED BY M.Wakayama

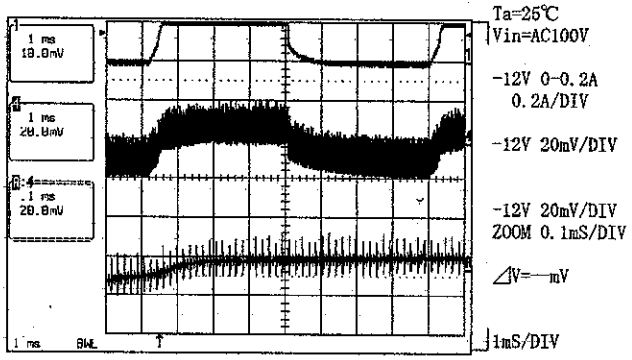
CC-MODE

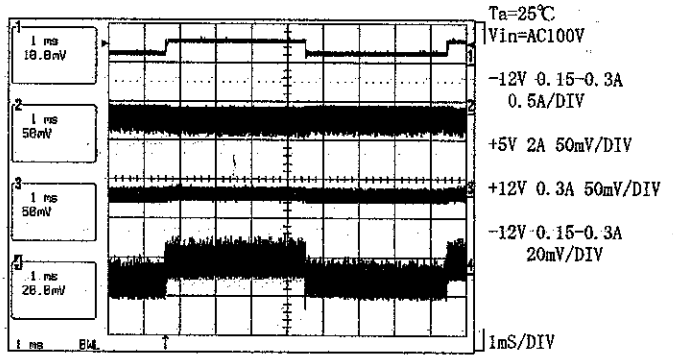
Vin= AC100V LOAD= +5V:2.0A +12V:0.3A -12V:50%-100%, 0%-100%, 1/2Peak-Peak, 0-Peak

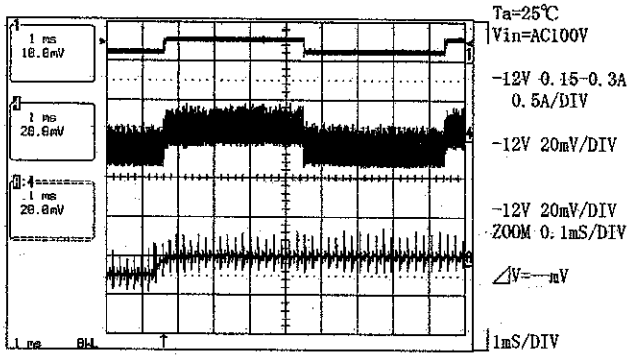


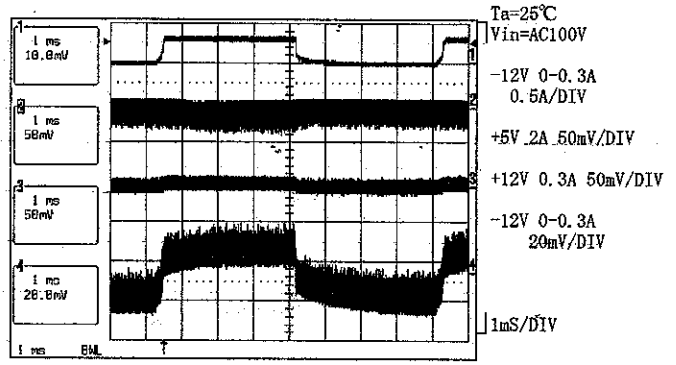


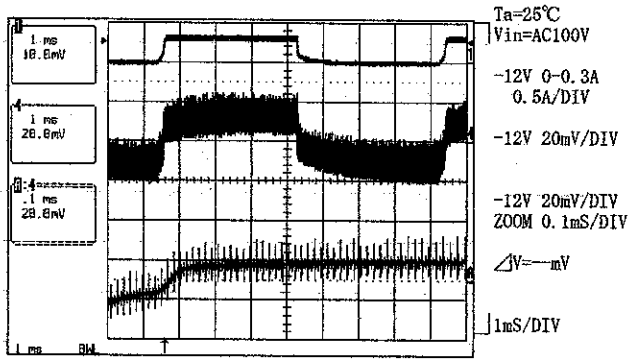










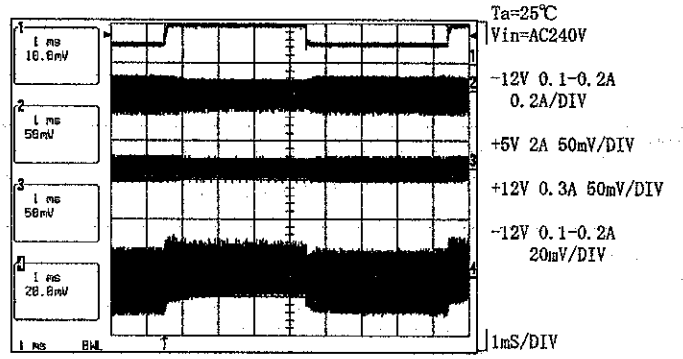


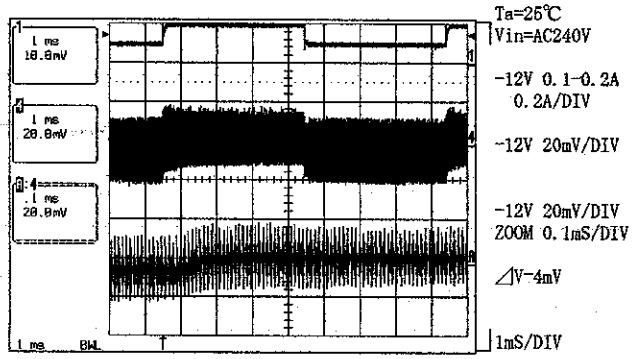
DATE: 04.10.28

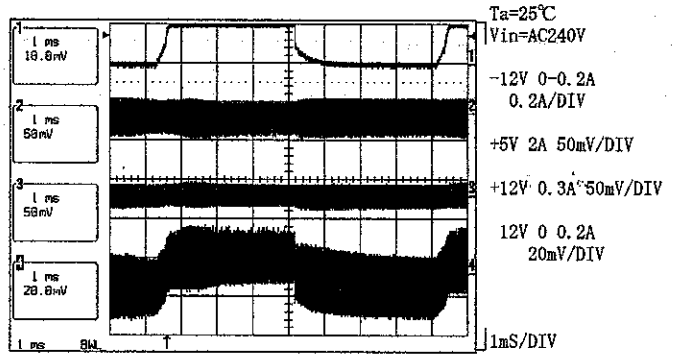
負荷急変-8 TRANSIENT RESPONSE-8 MODEL MTW15-51212 S/N: TESTED BY M.Wakayama

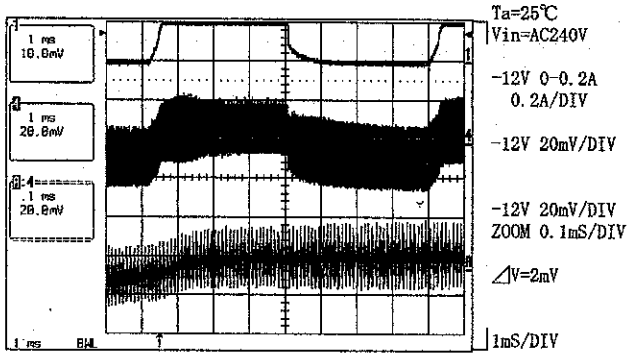
CC-MODE

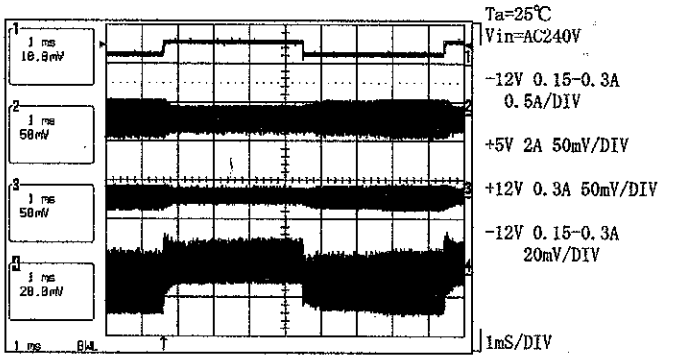
Vin= AC240V LOAD= +5V:2.0A +12V:0.3A -12V:50%-100%, 0%-100%, 1/2Peak-Peak, 0-Peak

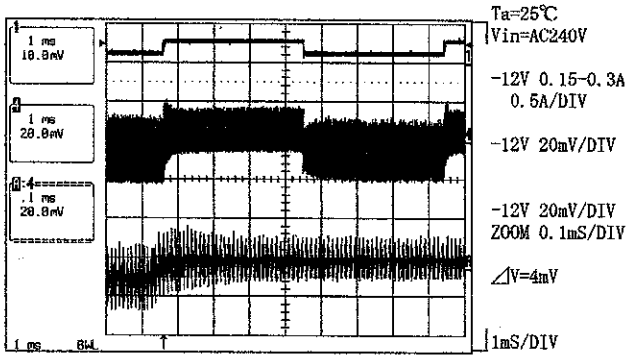


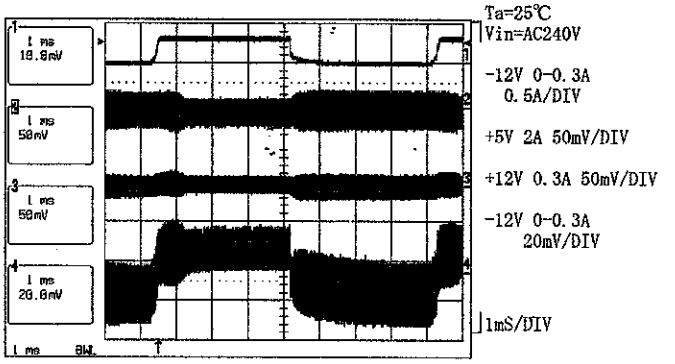


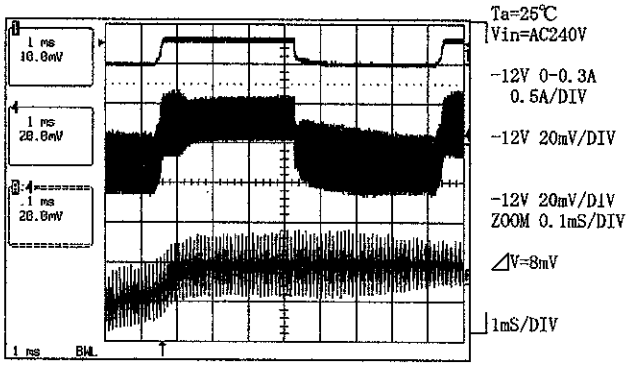










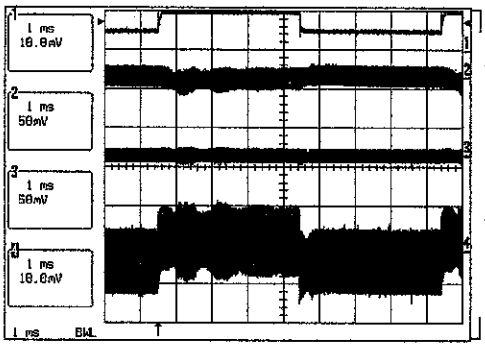


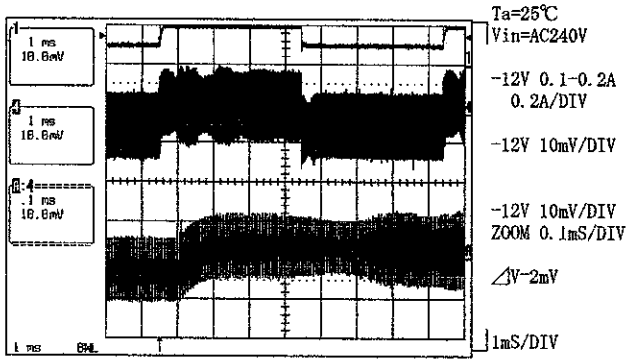
DATE: 04.10.28

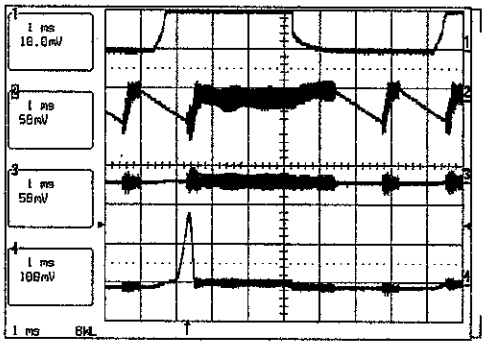
負荷急変-9 TRANSIENT RESPONSE-9 MODEL MTW15-51212 S/N: TESTED BY M.Wakayama

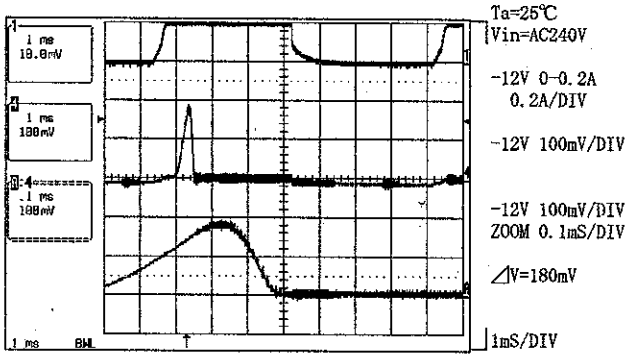
CC-MODE

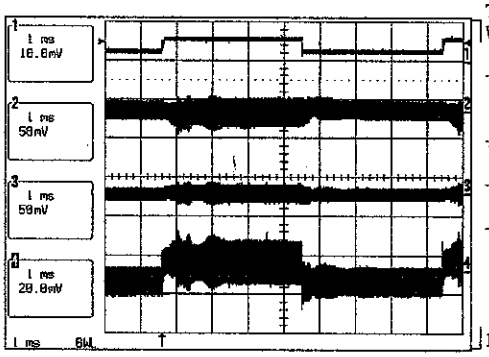
Vin= AC240V LOAD= +5V:0A +12V:0A -12V:50%-100%, 0%-100%, 1/2Peak-Peak, 0-Peak

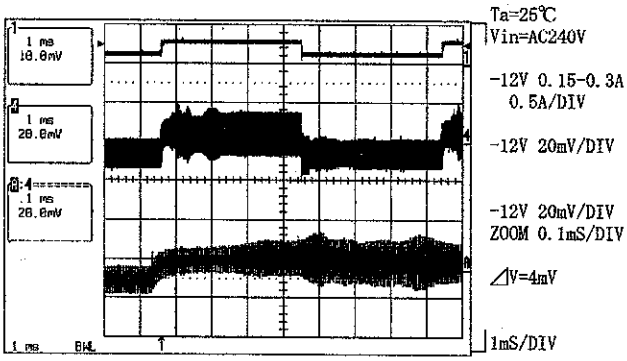


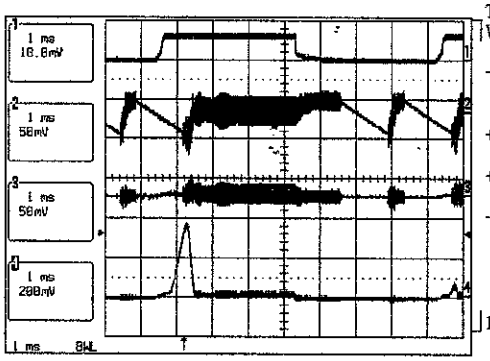


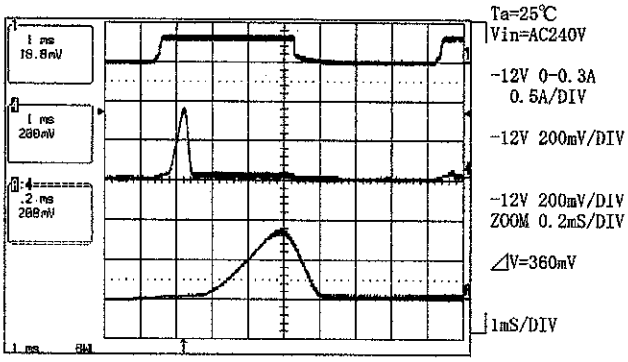










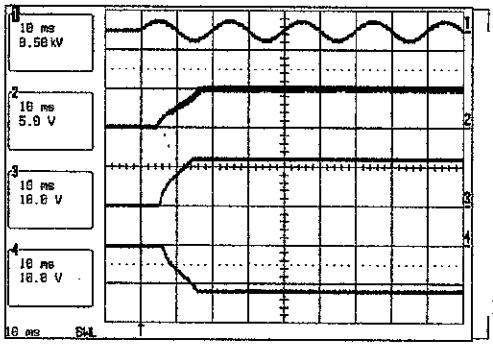


起動特性－1　TURN ON-1　MODEL　MTW15－51212　S/N：

DATE 04.11.05

TESTED BY M.Wakayama

+5V,+12V,-12V:CC MODE



Ta=-20℃
AC 85V
Vin Monitor

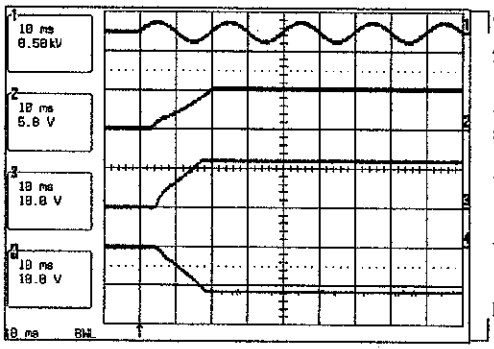
+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

-12V 0.2A
10V/DIV

H:10mS/DIV

+5V,+12V,-12V:CC MODE



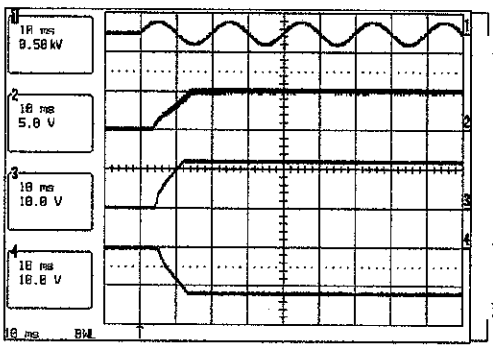
Ta=60℃
AC 85V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

-12V 0.2A
10V/DIV

H:10mS/DIV



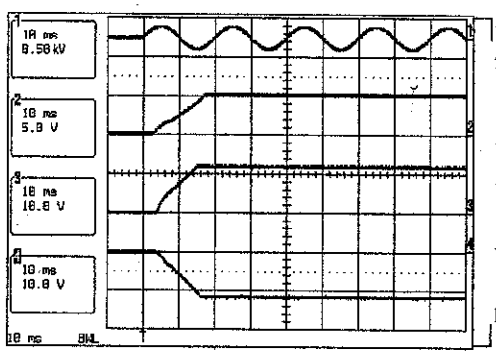
Ta=-20℃
AC100V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

-12V 0.2A
10V/DIV

H:10mS/DIV



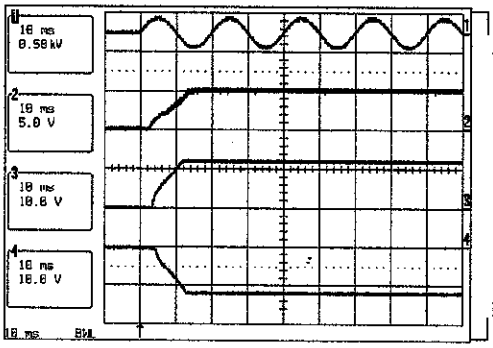
Ta=60℃
AC100V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

-12V 0.2A
10V/DIV

H:10mS/DIV



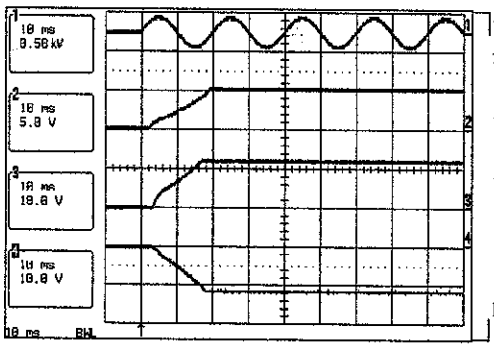
Ta=-20℃
AC132V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

12V 0.2A
10V/DIV

H:10mS/DIV



Ta=60℃
AC132V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

12V 0.2A
10V/DIV

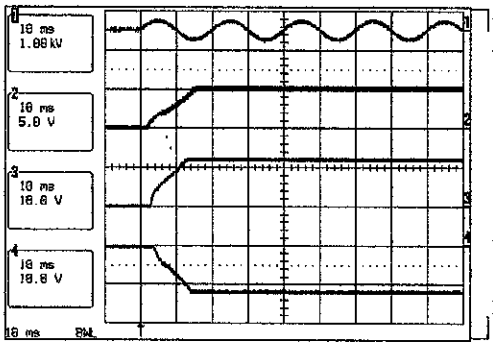
H:10mS/DIV

起動特性－2　TURN ON-2　MODEL　MTW15－51212　S/N：

DATE 04.11.05

TESTED BY M.Wakayama

+5V, +12V, -12V:CC MODE



Ta=-20℃
AC170V
Vin Monitor

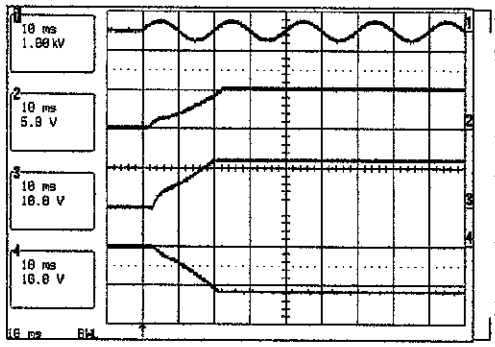
+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

-12V 0.2A
10V/DIV

H:10mS/DIV

+5V, +12V, -12V:CC MODE



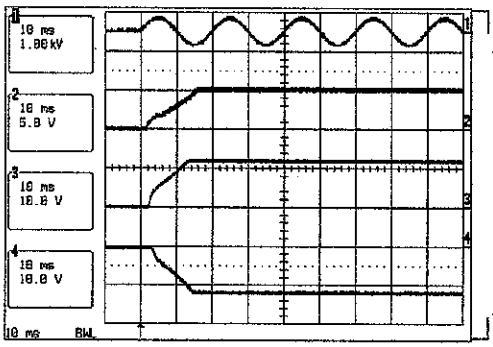
Ta=60℃
AC170V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

-12V 0.2A
10V/DIV

H:10mS/DIV



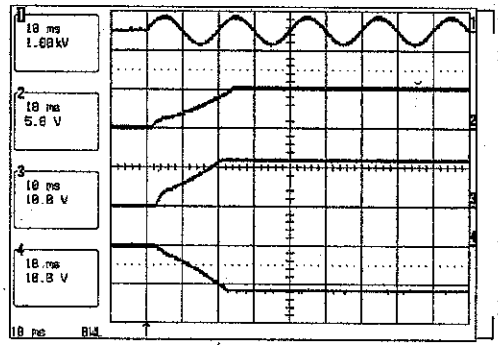
Ta=-20℃
AC240V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

-12V 0.2A
10V/DIV

H:10mS/DIV



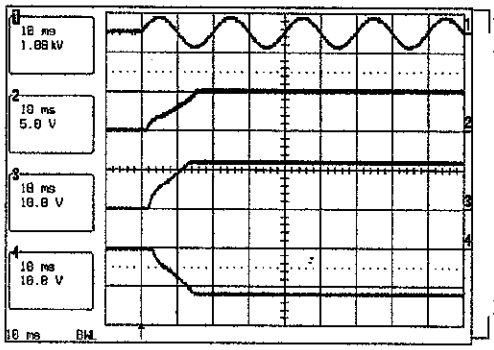
Ta=60℃
AC240V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

-12V 0.2A
10V/DIV

H:10mS/DIV



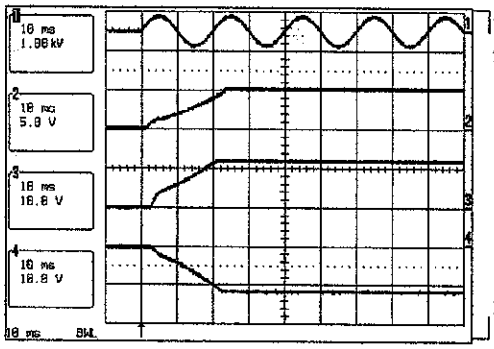
Ta=-20℃
AC265V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

12V 0.2A
10V/DIV

H:10mS/DIV



Ta=60℃
AC265V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

12V 0.2A
10V/DIV

H:10mS/DIV

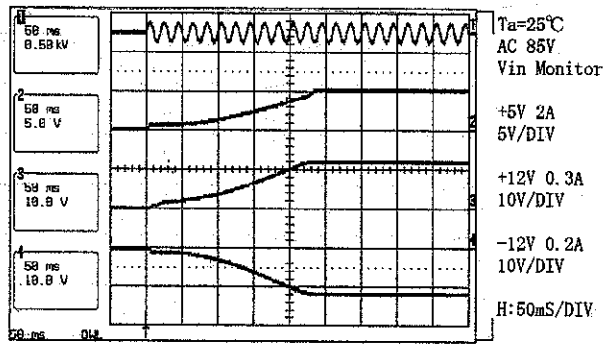
DATE 04.11.05

容量性負荷起動特性 TURN ON　MODEL MTW15－51212　S/N：

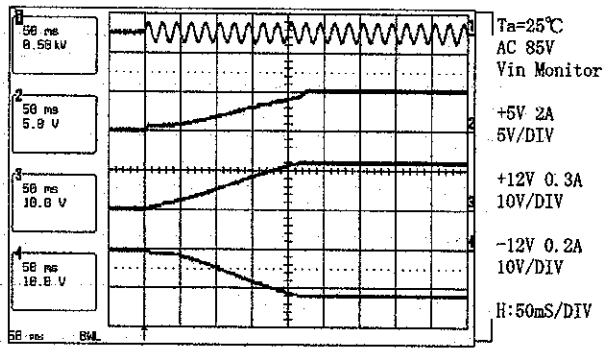
TESTED BY M.Wakayama

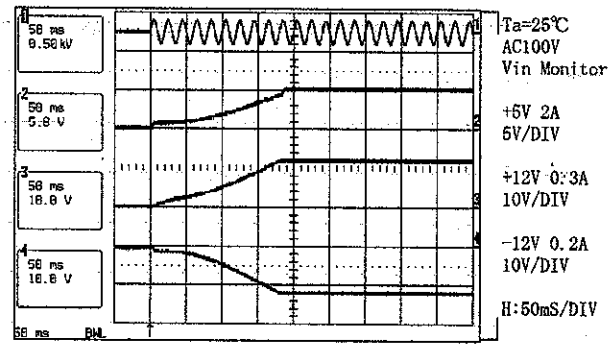
ACCEPTABLE CAPCITIVE LOAD

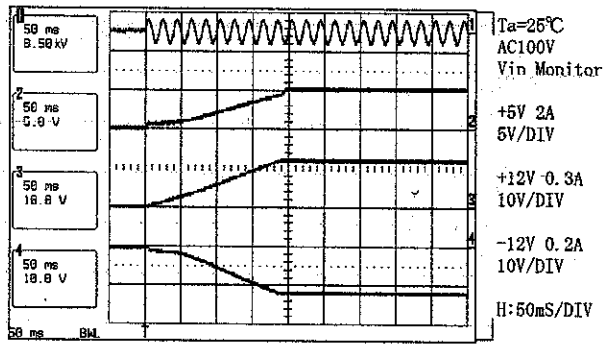
+5V, +12V, −12V:CC MODE
+5V:12,000μF
+12V:6,000μF

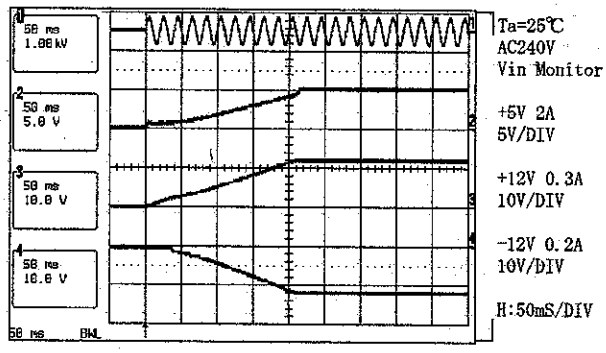


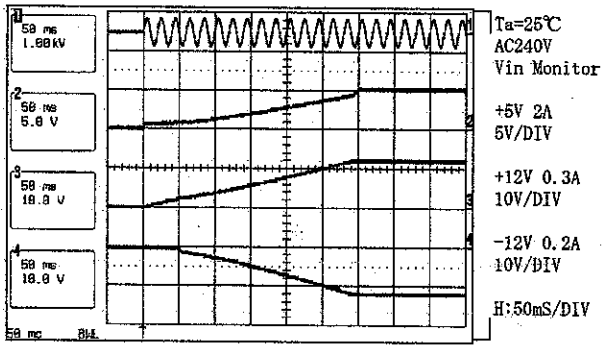
+5V, +12V, −12V:CC MODE
+5V:20,000μF
+12V:10,000μF

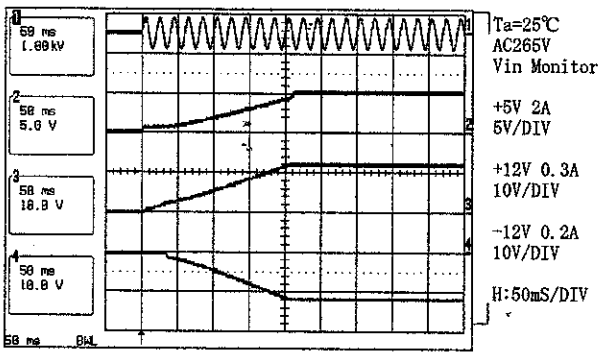


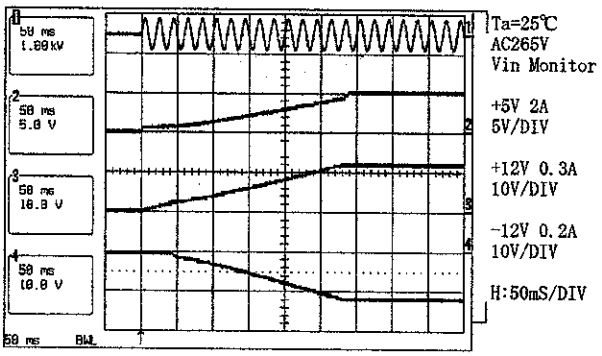










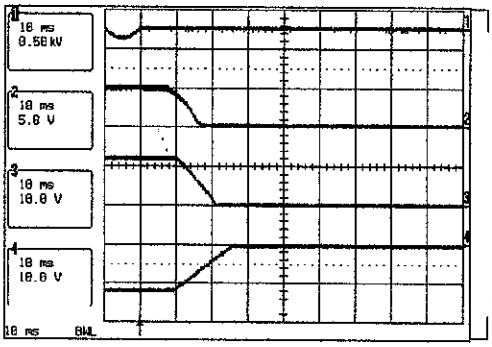


保持特性－1　　TURN OFF-1　　MODEL　MTW15－51212　　S/N：

DATE　04.11.05

TESTED BY　M.Wakayama

+5V, +12V, -12V:CC MODE



Ta=-20℃
AC 85V
Vin Monitor

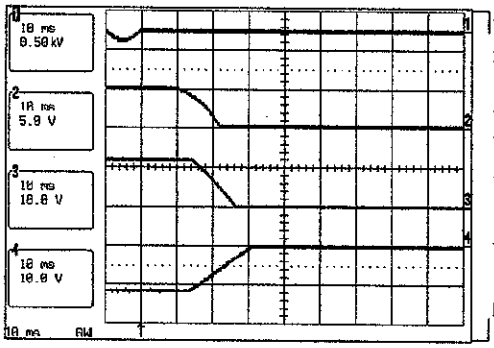
+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

-12V 0.2A
10V/DIV

H:10mS/DIV

+5V, +12V, -12V:CC MODE



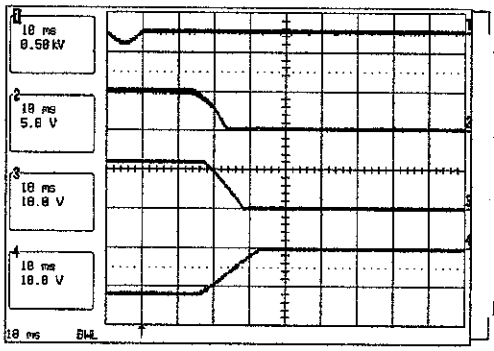
Ta=60℃
AC 85V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

-12V 0.2A
10V/DIV

H:10mS/DIV



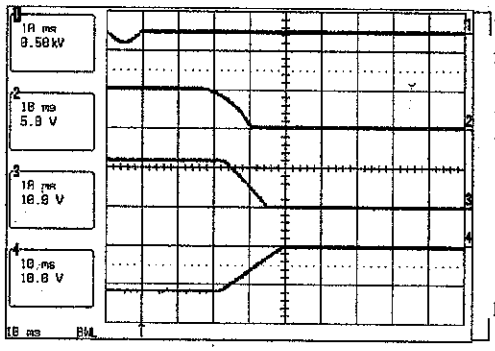
Ta=-20℃
AC100V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

12V 0.2A
10V/DIV

H:10mS/DIV



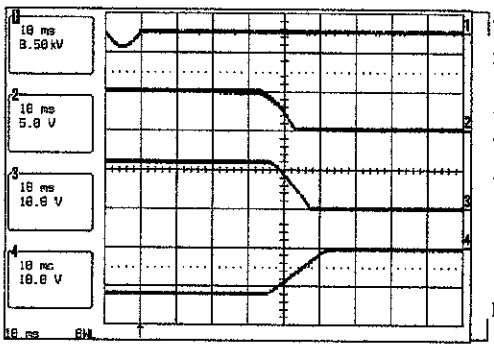
Ta=60℃
AC100V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

12V 0.2A
10V/DIV

H:10mS/DIV



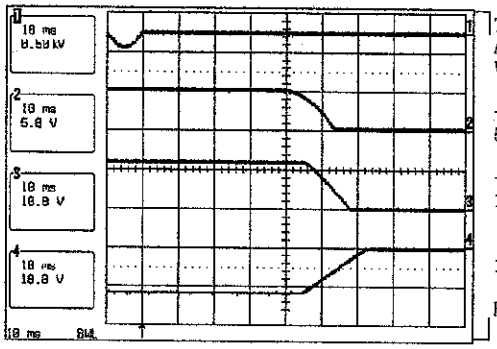
Ta=-20℃
AC132V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

12V 0.2A
10V/DIV

H:10mS/DIV



Ta=60℃
AC132V
Vin Monitor

+5V 2A
5V/DIV

+12V 0.3A
10V/DIV

12V 0.2A
10V/DIV

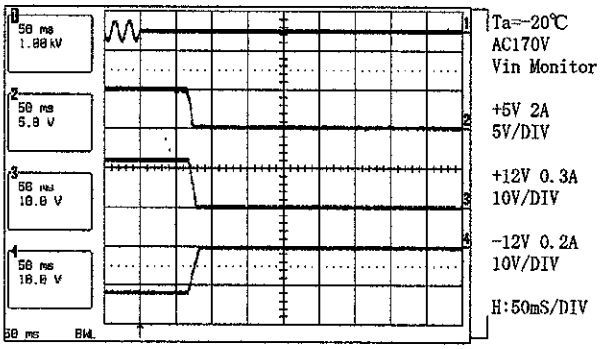
H:10mS/DIV

保持特性－2　TURN OFF-2　MODEL　MTW15－51212　S/N：

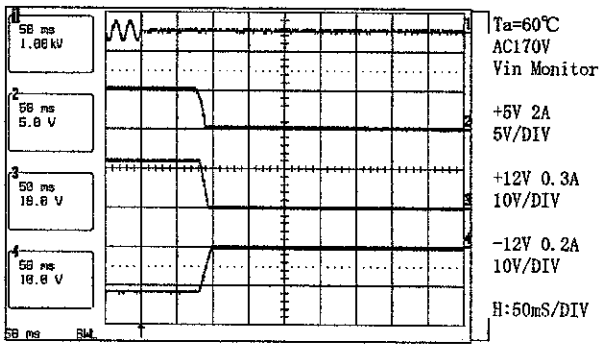
DATE 04.11.05

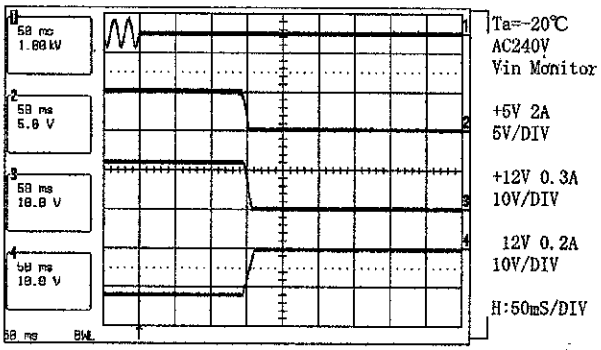
TESTED BY M.Wakayama

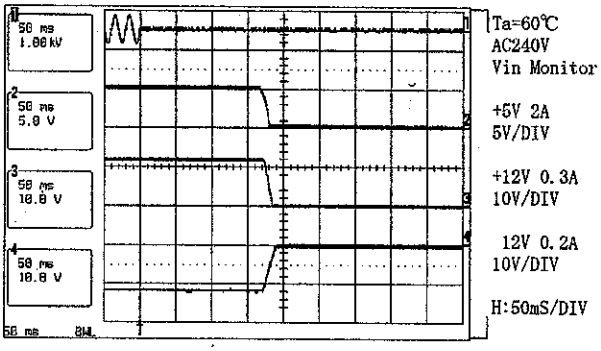
+5V, +12V, -12V:CC MODE

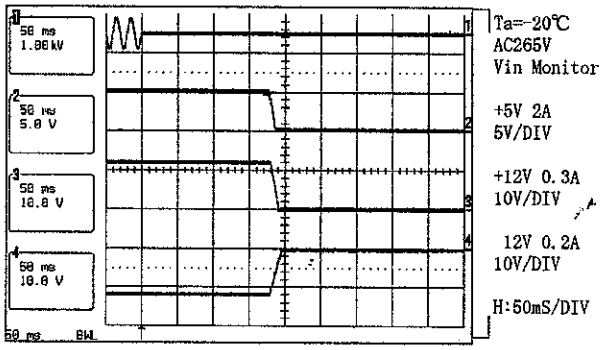


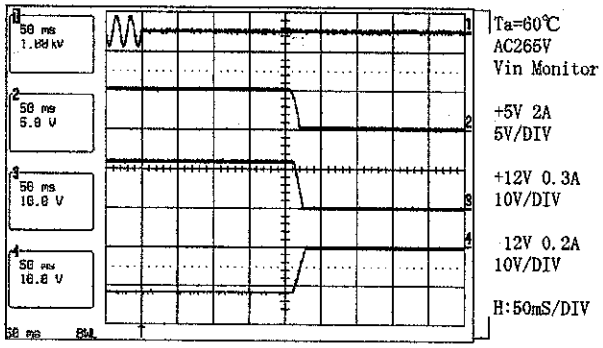
+5V, +12V, -12V:CC MODE







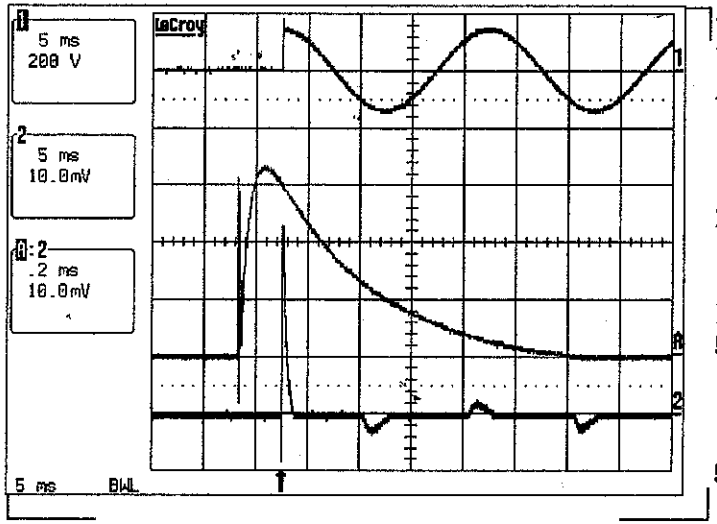




DATE: 04.12.1

突入電流　INRUSH CURRENT　MODEL　MTW15－51212　S/N：

TESTED BY　M.Wakayama



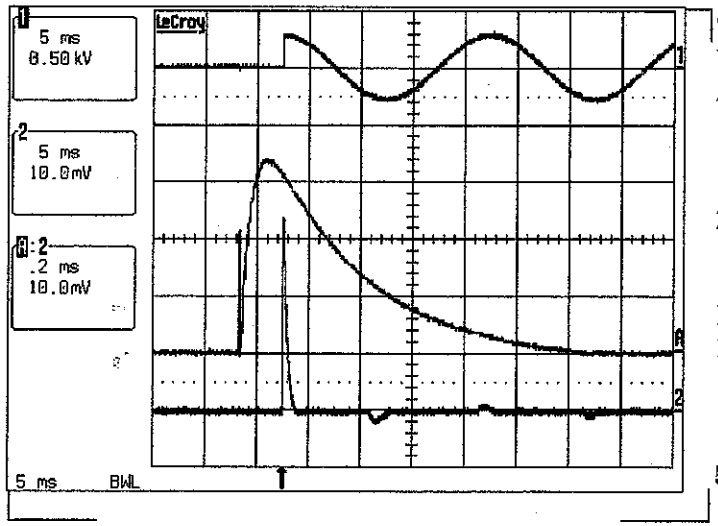
Ta=25℃
Vin=MONITOR
AVR AC85V

100% LOAD

ZOOM=0.2mS/DIV

Ipeak=16.7A
5A/DIV

5mS/DIV



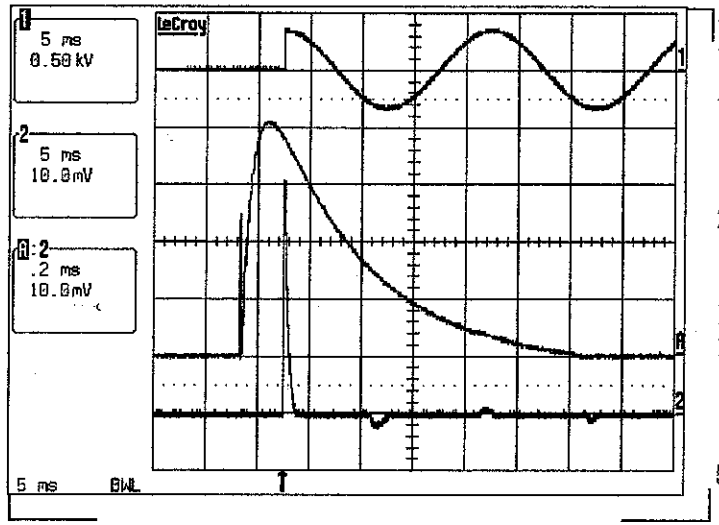
Ta=25℃
Vin=MONITOR
AVR AC200V

100% LOAD

ZOOM=0.2mS/DIV

Ipeak=34.0A
10A/DIV

5mS/DIV



Ta=25℃
Vin=MONITOR
AVR AC240V

100% LOAD

ZOOM=0.2mS/DIV

Ipeak=41.3A
10A/DIV

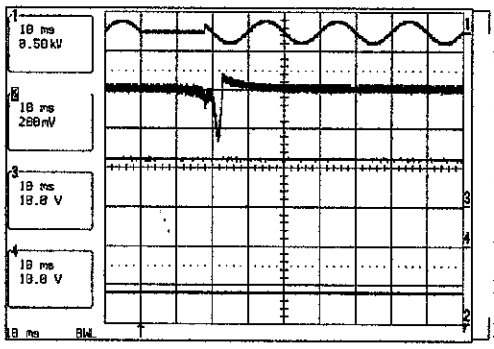
5mS/DIV

瞬停－1　SHORT INTERRUPTIONS-1　MODEL　MTW15－51212　S/N：

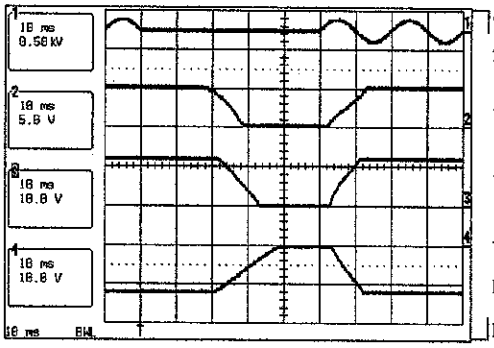
DATE 04.11.01

TESTED BY M.Wakayama

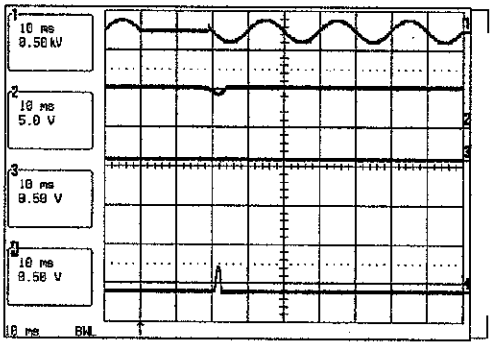
CC MODE



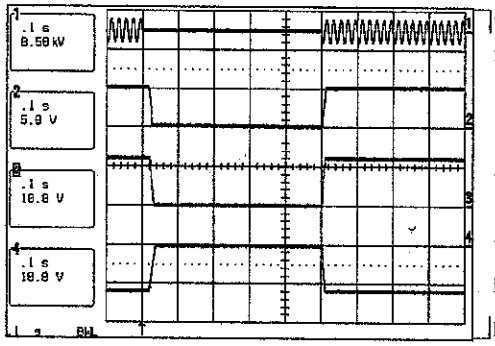
Ta=25℃
AC100V
Vin Monitor
+5V 2A 200mV/DIV
+12V 0.3A 10V/DIV
-12V 0.2A 10V/DIV
PLD:18mS
H:10mS/DIV



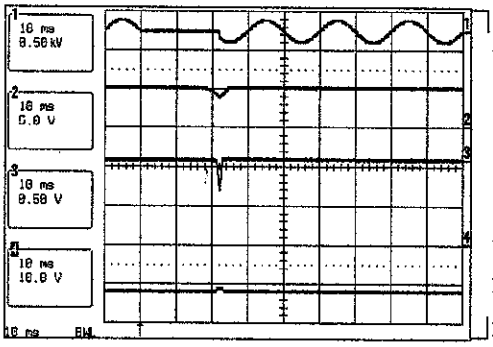
Ta=25℃
AC100V
Vin Monitor
+5V 2A 5V/DIV
+12V 0.3A 10V/DIV
-12V 0.2A 10V/DIV
PLD:50mS
H:10mS/DIV



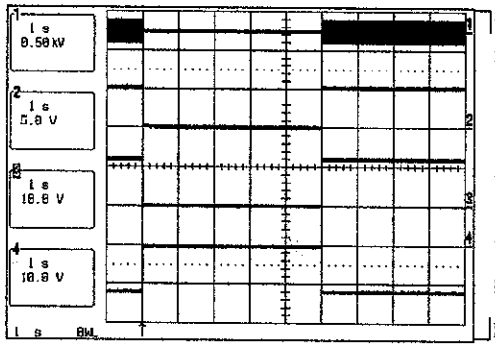
Ta=25℃
AC100V
Vin Monitor
+5V 2A 5V/DIV
+12V 0.3A
0.5V/DIV
-12V 0.2A 10V/DIV
0.5V/DIV
PLD:19mS
H:10mS/DIV



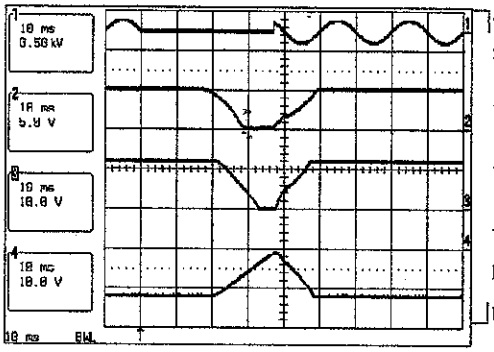
Ta=25℃
AC100V
Vin Monitor
+5V 2A 5V/DIV
+12V 0.3A 10V/DIV
-12V 0.2A 10V/DIV
PLD:500mS
H:0.1S/DIV



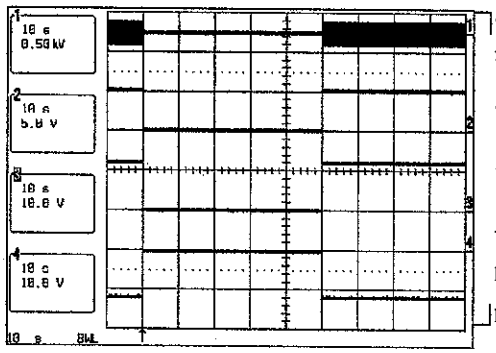
Ta=25℃
AC100V
Vin Monitor
+5V 3A 5V/DIV
+12V 0.3A
0.5V/DIV
-12V 0.3A 10V/DIV
PLD:22mS
H:10mS/DIV



Ta=25℃
AC100V
Vin Monitor
+5V 2A 5V/DIV
+12V 0.3A 10V/DIV
-12V 0.2A 10V/DIV
PLD:5S
H:1S/DIV



Ta=25℃
AC100V
Vin Monitor
+5V 2A 5V/DIV
+12V 0.3A 10V/DIV
-12V 0.2A 10V/DIV
PLD:37mS
H:10mS/DIV



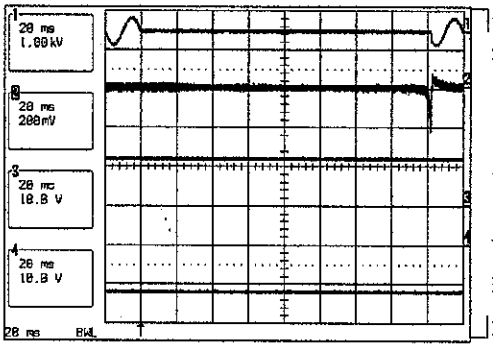
Ta=25℃
AC100V
Vin Monitor
+5V 2A 5V/DIV
+12V 0.3A 10V/DIV
-12V 0.2A 10V/DIV
PLD:50S
H:10S/DIV

瞬停－2　SHORT INTERRUPTIONS-2　MODEL　MTW15－51212　S/N：

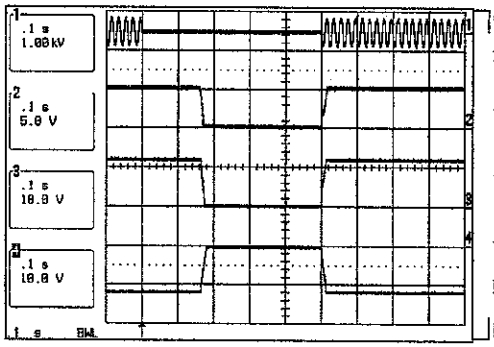
DATE 04.11.01

TESTED BY M.Wakayama

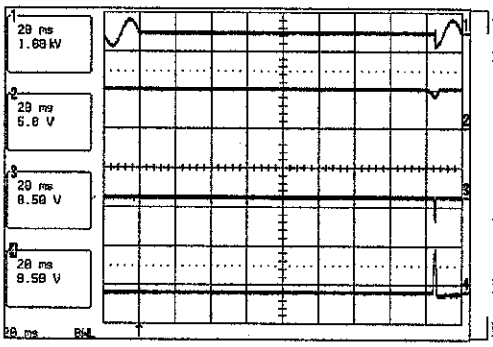
CC MODE



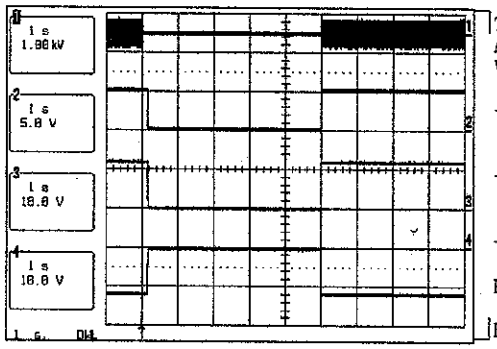
Ta=25℃
AC240V
Vin Monitor
+5V 2A 200mV/DIV
+12V 0.3A 10V/DIV
-12V 0.2A 10V/DIV
PLD:162mS
H:20mS/DIV



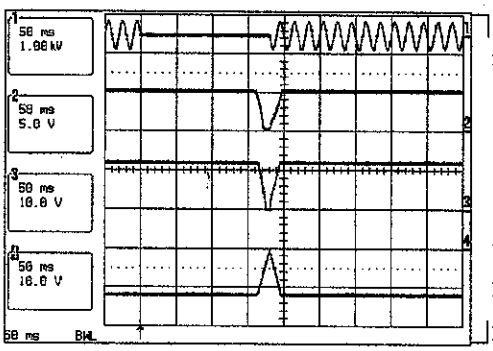
Ta=25℃
AC240V
Vin Monitor
+5V 2A 5V/DIV
+12V 0.3A 10V/DIV
-12V 0.2A 10V/DIV
PLD:500mS
H:0.1S/DIV



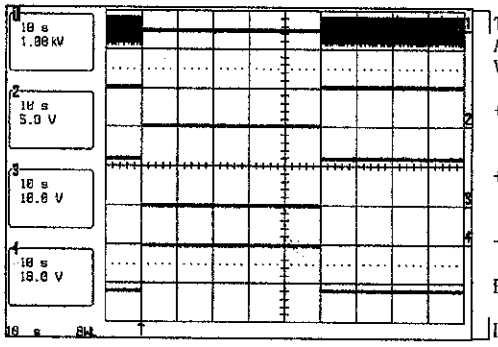
Ta=25℃
AC240V
Vin Monitor
+5V 2A 5V/DIV
+12V 0.3A
0.5V/DIV
-12V 0.2A
0.5V/DIV
PLD:165mS
H:20mS/DIV



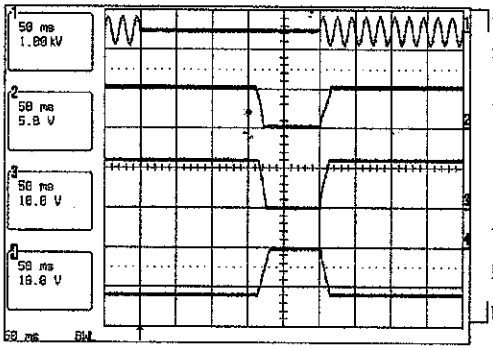
Ta=25℃
AC240V
Vin Monitor
+5V 2A 5V/DIV
+12V 0.3A 10V/DIV
-12V 0.2A 10V/DIV
PLD:5S
H:1S/DIV



Ta=25℃
AC240V
Vin Monitor
+5V 3A 5V/DIV
+12V 0.3A 10V/DIV
-12V 0.3A 10V/DIV
PLD:180mS
H:50mS/DIV



Ta=25℃
AC240V
Vin Monitor
+5V 2A 5V/DIV
+12V 0.3A 10V/DIV
-12V 0.2A 10V/DIV
PLD:50S
H:10S/DIV



Ta=25℃
AC240V
Vin Monitor
+5V 2A 5V/DIV
+12V 0.3A 10V/DIV
-12V 0.2A 10V/DIV
PLD:250mS
H:50mS/DIV

型名： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C57

設置方向：A方向　　Vo=+5V, +12V, -12V

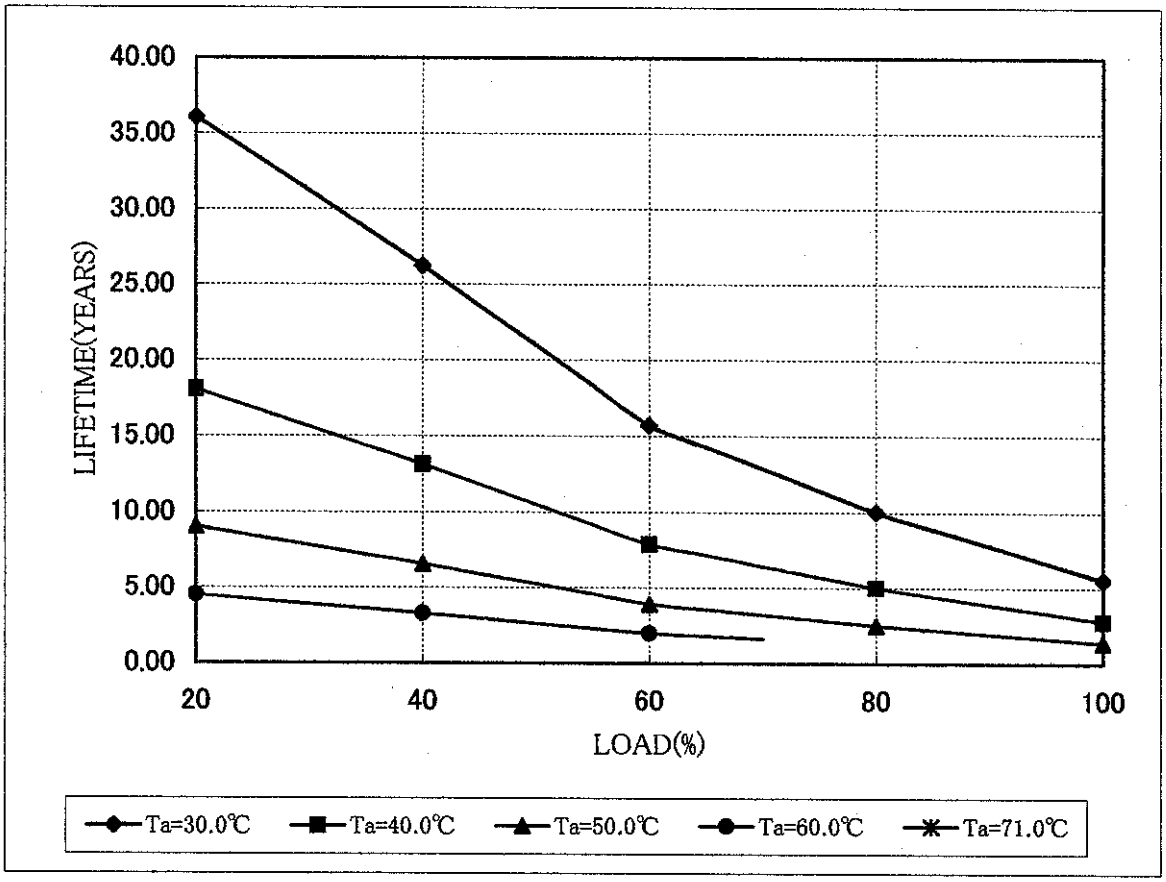
Vin=AC100V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	36.10	18.05	9.03	4.51	
40	26.24	13.12	6.56	3.28	
60	15.71	7.86	3.93	1.96	
80	10.01	5.01	2.50		
100	5.55	2.78	1.39		

＊連続稼動　　(最小保証値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=100%
Ta=60℃　Io=70%



型名： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C57

設置方向：A方向　　Vo=+5V, +12V, -12V

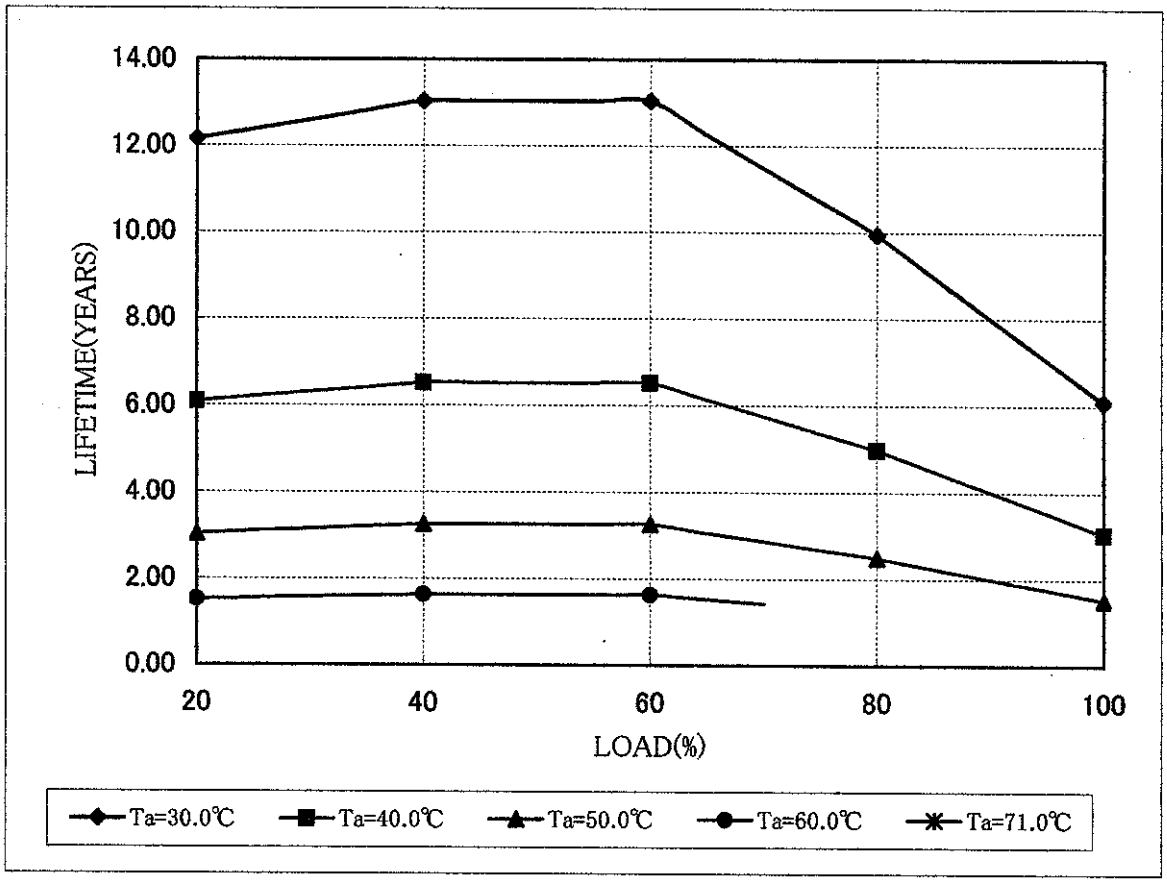
Vin=240V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	12.16	6.08	3.04	1.52	
40	13.03	6.52	3.26	1.63	
60	13.03	6.52	3.26	1.63	
80	9.95	4.97	2.49		
100	6.08	3.04	1.52		

＊連続稼動　(最小保証値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=100%
Ta=60℃　Io=70%



型名： MTW15-51212

05/08/08

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C56, C57

設置方向：A方向　　Vo=+5V, +12V, -12V

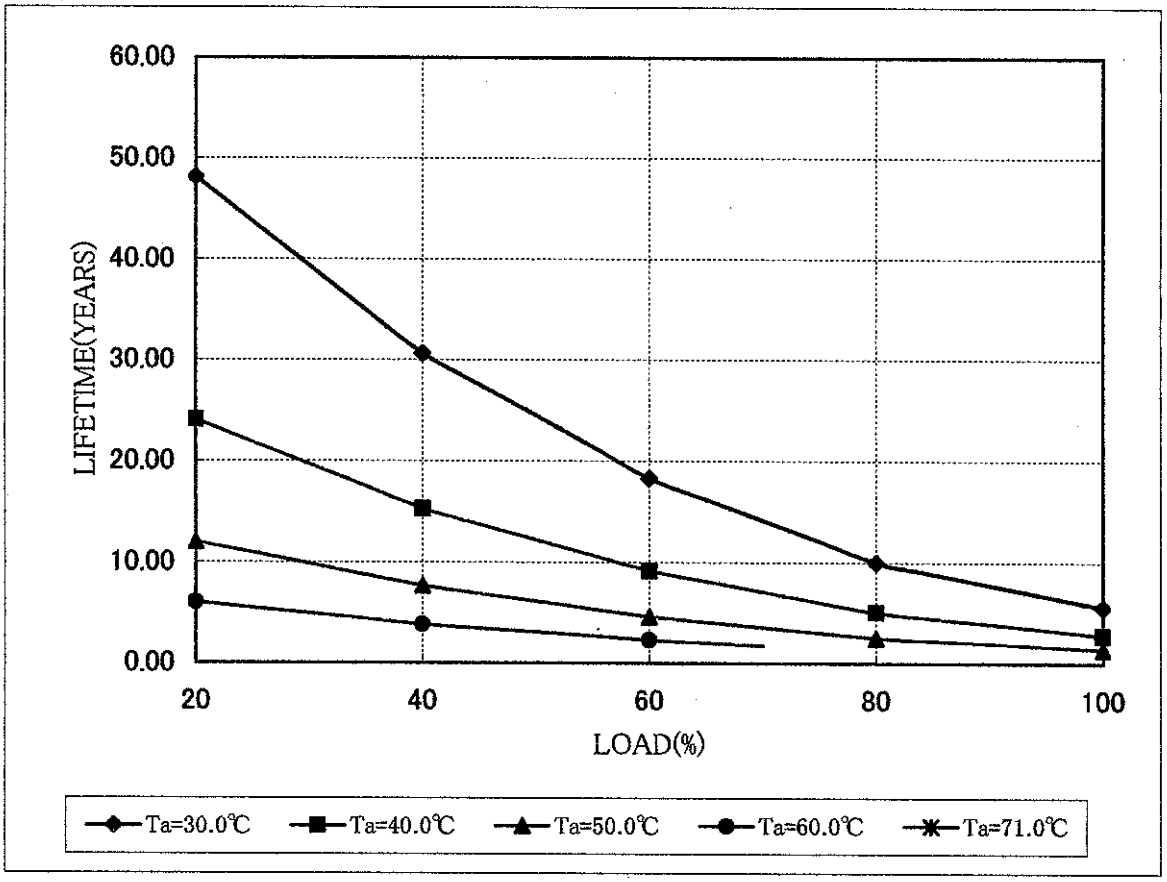
Vin=AC100V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	48.13	24.07	12.03	6.02	
40	30.62	15.31	7.65	3.83	
60	18.33	9.17	4.58	2.29	
80	10.01	5.01	2.50		
100	5.55	2.78	1.39		

＊連続稼動　　(最小実力値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=100%
Ta=60℃　Io=70%



型名： MTW15-51212

05/08/08

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C56, C57

設置方向：A方向　　Vo=+5V, +12V, -12V

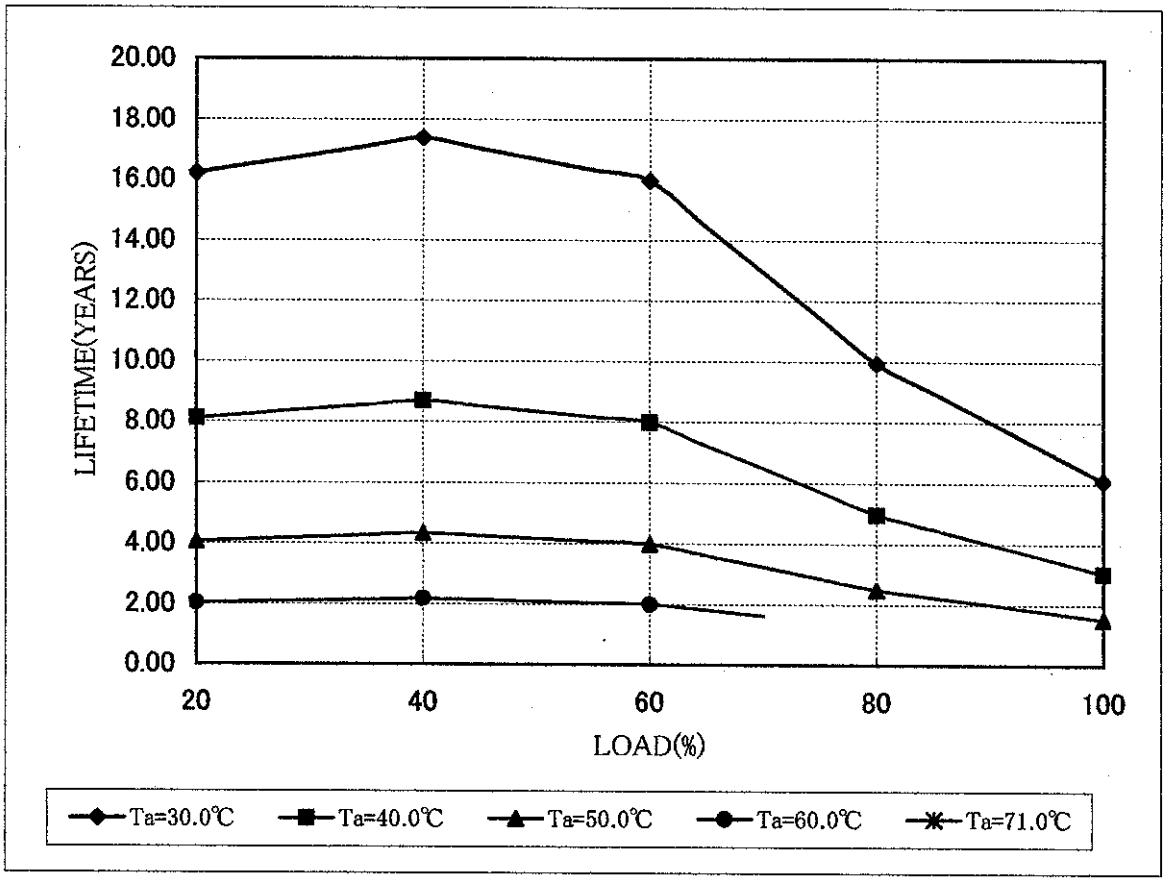
Vin=240V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	16.21	8.11	4.05	2.03	
40	17.37	8.69	4.34	2.17	
60	15.96	7.98	3.99	1.99	
80	9.95	4.97	2.49		
100	6.08	3.04	1.52		

＊連続稼動　(最小実力値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=100%
Ta=60℃　Io=70%



型名 ： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C56, C57

設置方向 ： C方向　　Vo=+5V, +12V, -12V

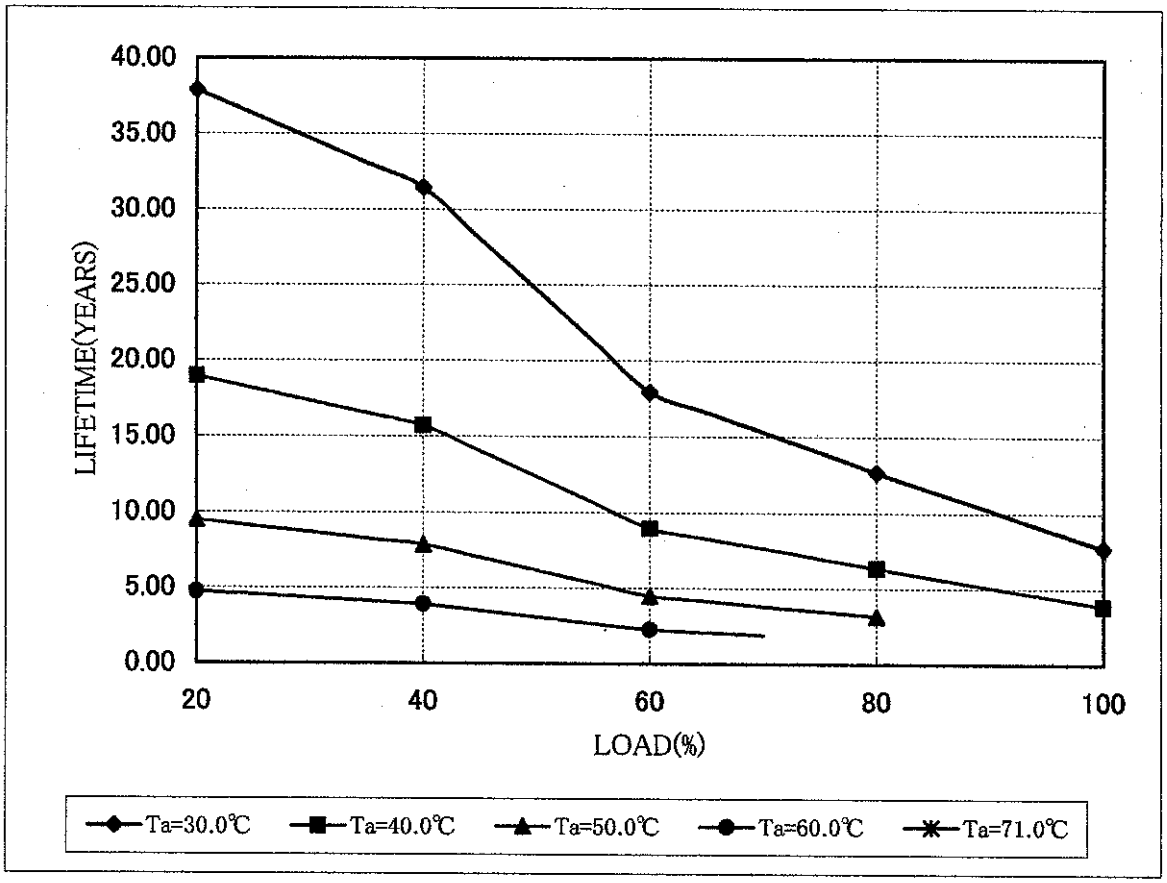
Vin=AC100V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	37.90	18.95	9.47	4.74	
40	31.43	15.71	7.86	3.93	
60	17.92	8.96	4.48	2.24	
80	12.68	6.34	3.17		
100	7.69	3.85			

＊連続稼動　　(最小保証値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=80%
Ta=60℃　Io=70%



型名 ： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C57

設置方向 ： C方向　　Vo=+5V, +12V, -12V

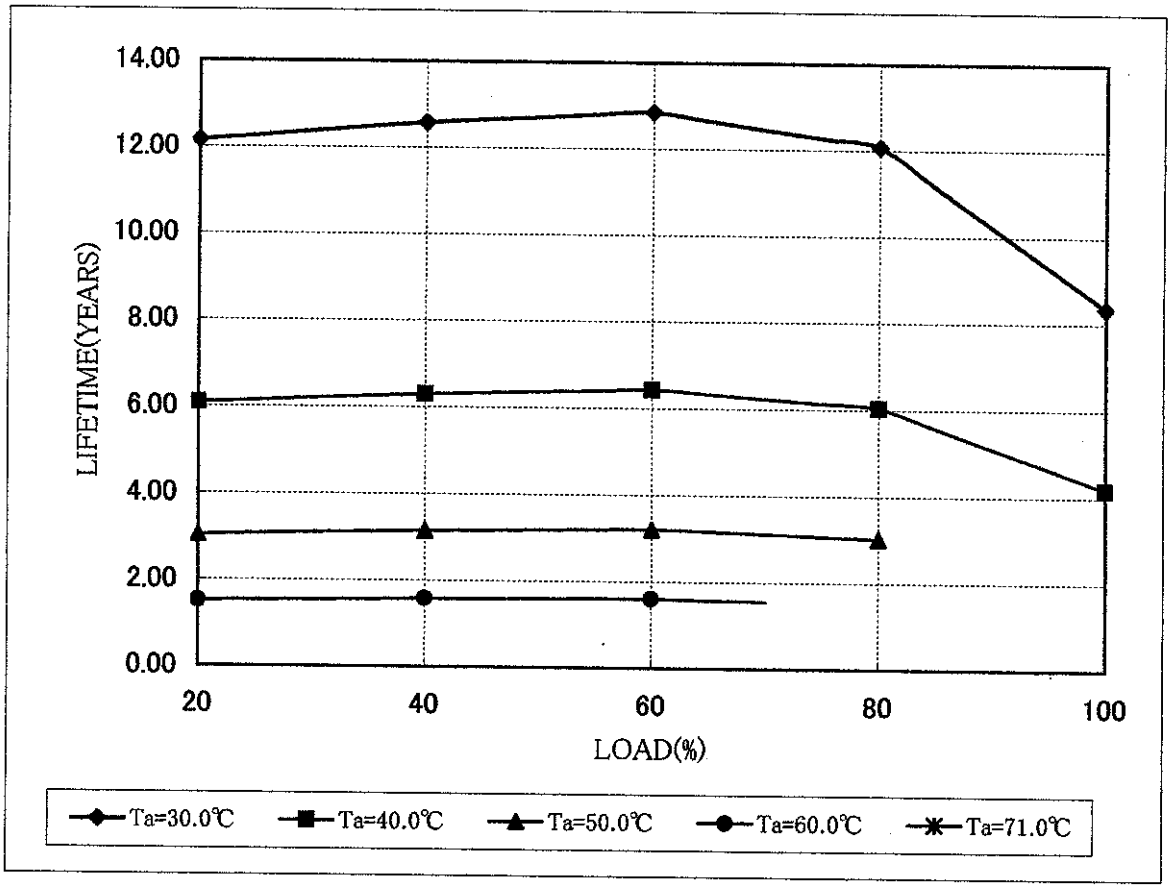
Vin=240V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	12.16	6.08	3.04	1.52	
40	12.59	6.29	3.15	1.57	
60	12.85	6.43	3.21	1.61	
80	12.08	6.04	3.02		
100	8.36	4.18			

＊連続稼動 （最小保証値）

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=80%
Ta=60℃　Io=70%



型名： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C56, C57

設置方向：C方向　　Vo=+5V, +12V, -12V

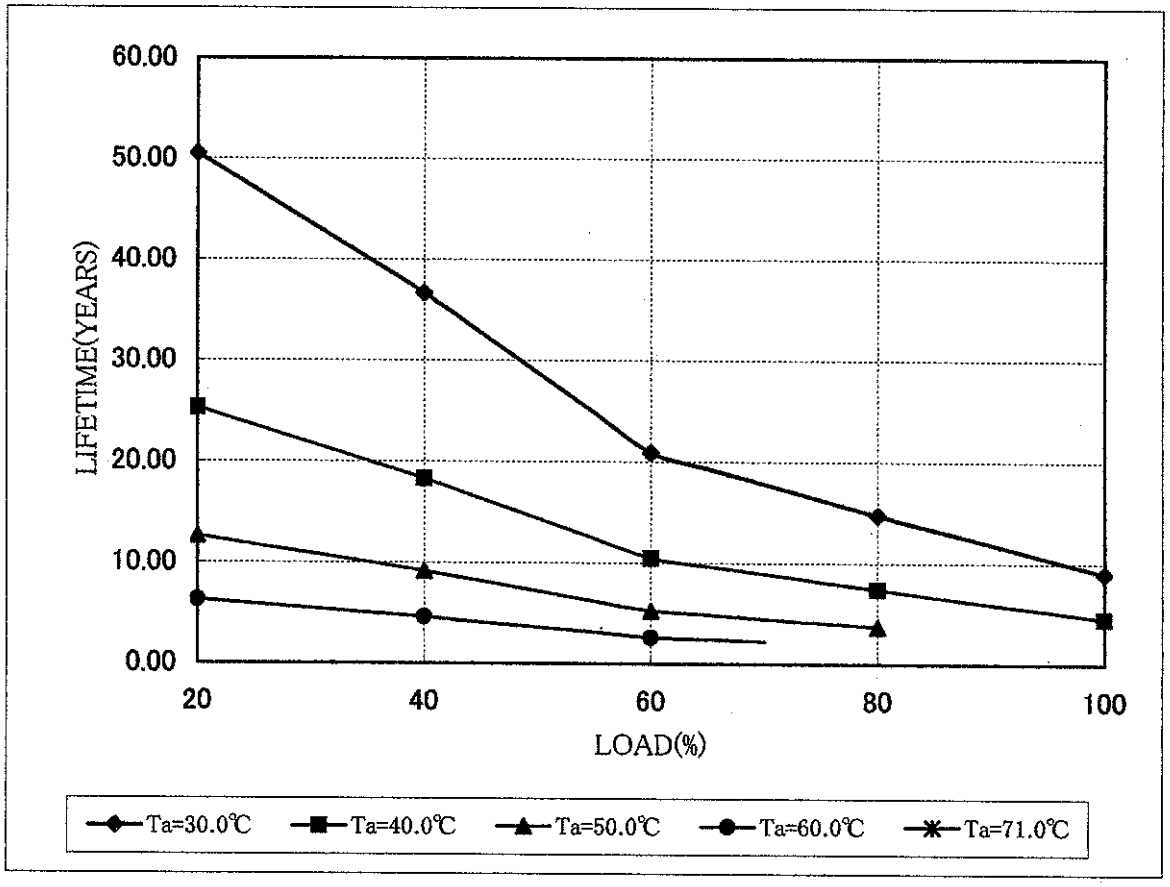
Vin=AC100V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	50.53	25.26	12.63	6.32	
40	36.67	18.33	9.17	4.58	
60	20.91	10.46	5.23	2.61	
80	14.79	7.39	3.70		
100	8.98	4.49			

＊連続稼動　　(最小実力値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=80%
Ta=60℃　Io=70%



型名： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C57

設置方向：C方向　　Vo=+5V, +12V, -12V

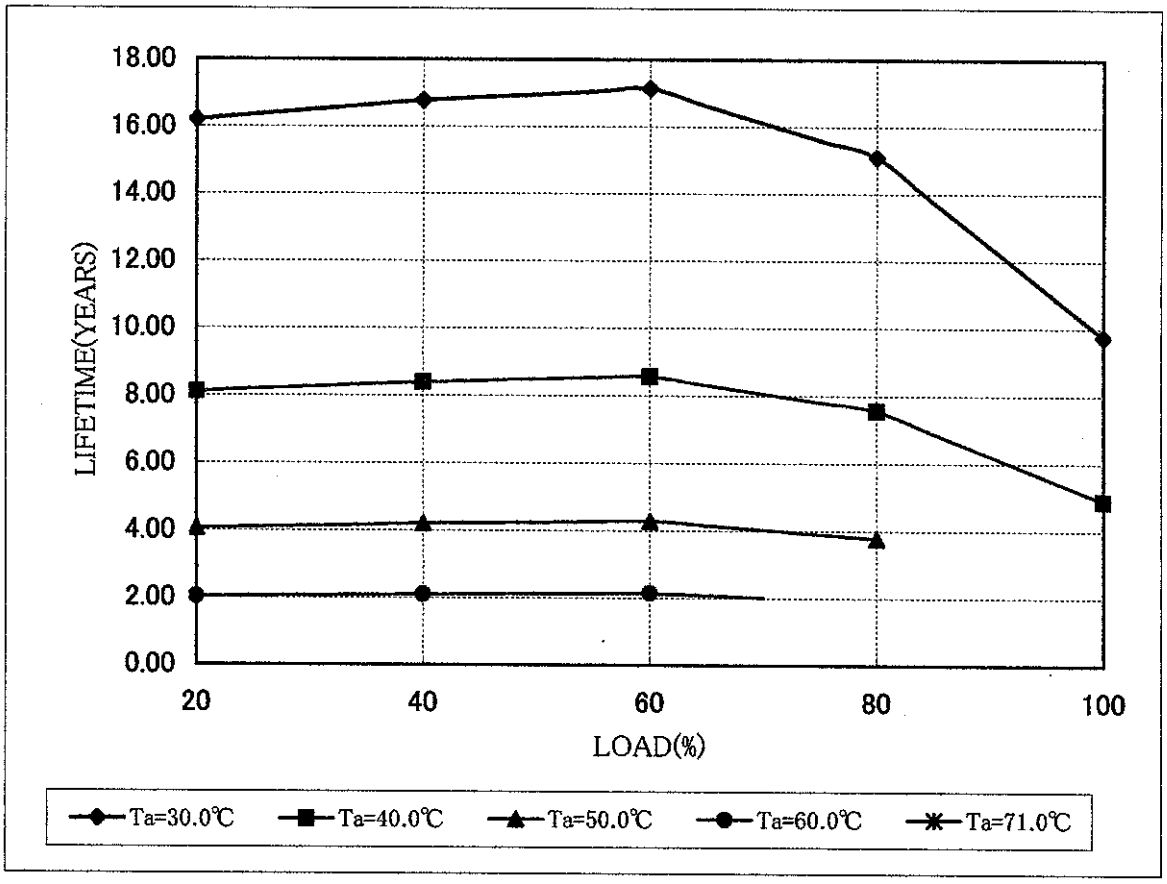
Vin=240V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	16.21	8.11	4.05	2.03	
40	16.78	8.39	4.20	2.10	
60	17.14	8.57	4.28	2.14	
80	15.10	7.55	3.77		
100	9.76	4.88			

＊連続稼動 （最小実力値）

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=80%
Ta=60℃　Io=70%



型名 ： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C56, C57

設置方向 : D方向　　Vo=+5V, +12V, -12V

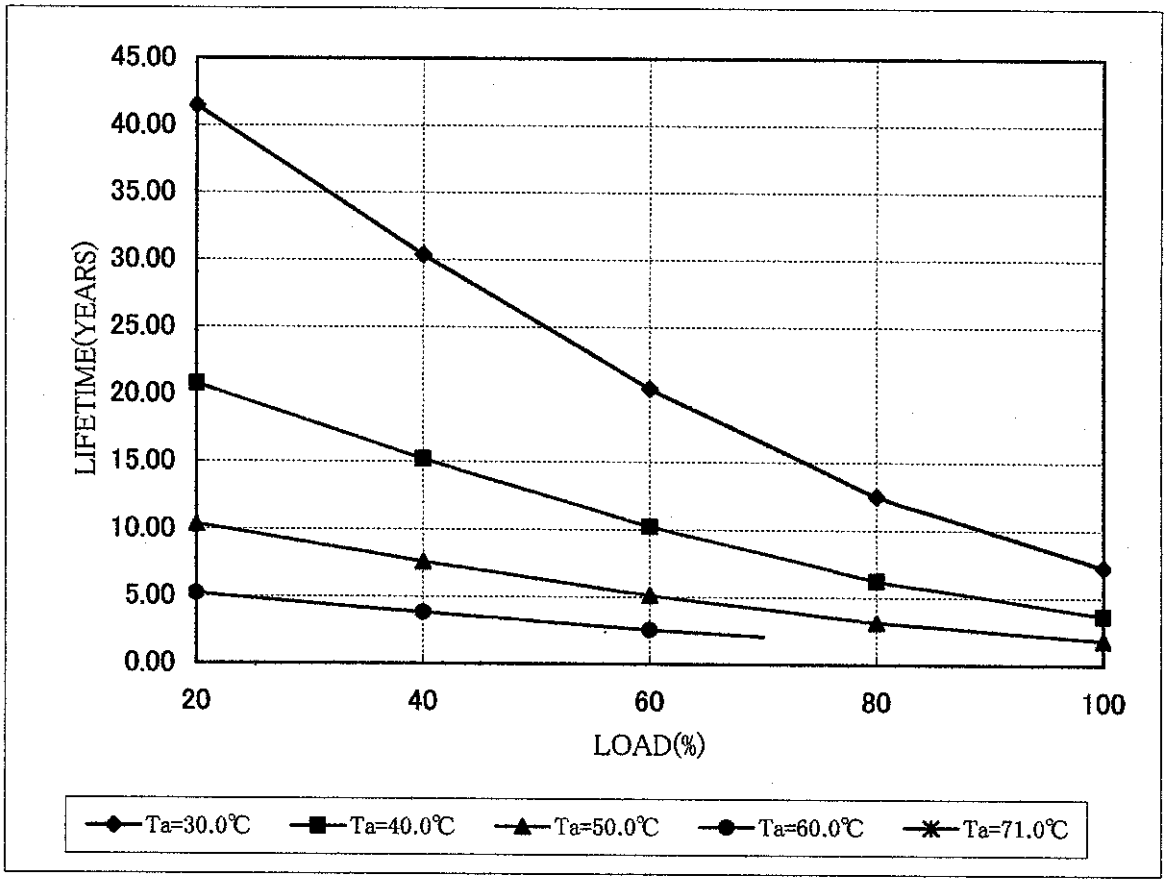
Vin=AC100V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	41.47	20.74	10.37	5.18	
40	30.36	15.18	7.59	3.79	
60	20.45	10.22	5.11	2.56	
80	12.50	6.25	3.13		
100	7.28	3.64	1.82		

＊連続稼動　　(最小保証値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=100%
Ta=60℃　Io=70%



型名： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C57

設置方向：D方向　　Vo=+5V, +12V, -12V

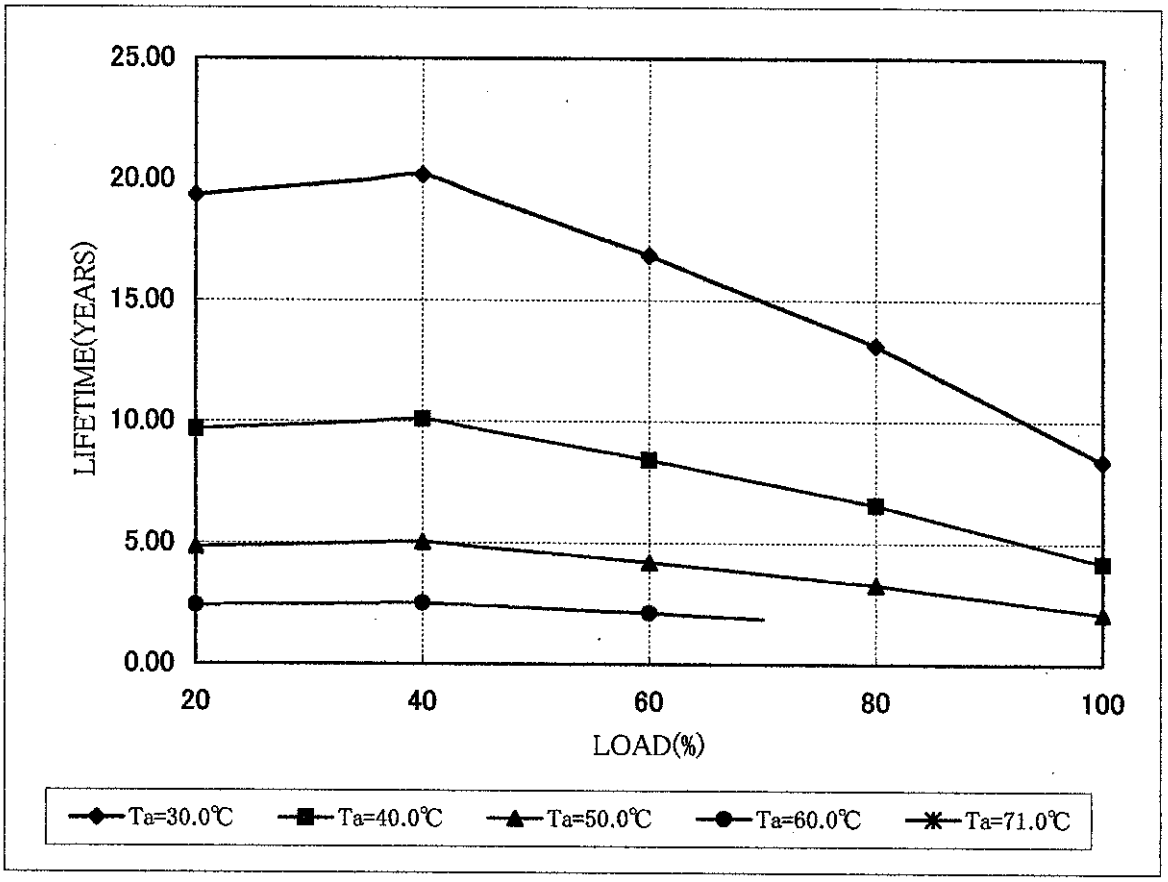
Vin=240V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	19.34	9.67	4.84	2.42	
40	20.17	10.08	5.04	2.52	
60	16.84	8.42	4.21	2.11	
80	13.12	6.56	3.28		
100	8.36	4.18	2.09		

＊連続稼動　(最小保証値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=100%
Ta=60℃　Io=70%



型名： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C56, C57

設置方向：D方向　　Vo=+5V, +12V, -12V

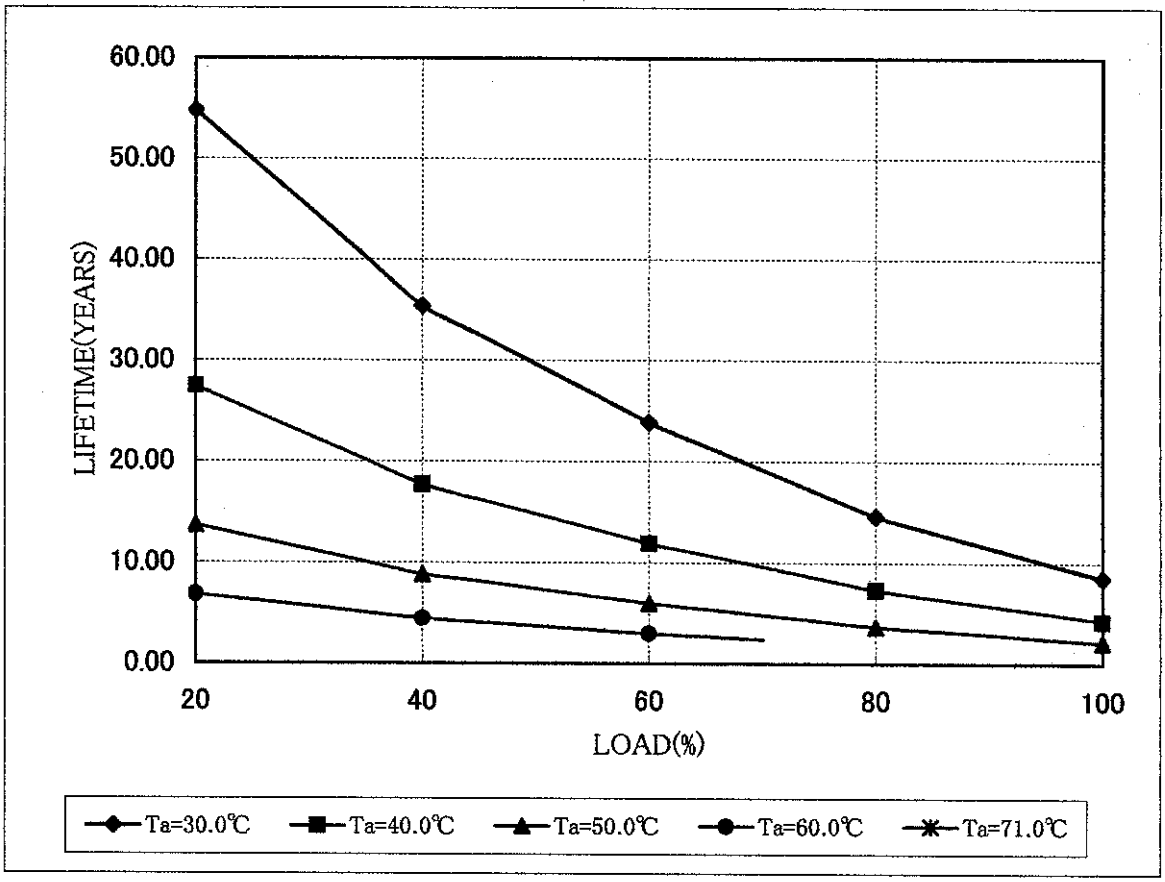
Vin=AC100V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	54.81	27.41	13.70	6.85	
40	35.42	17.71	8.85	4.43	
60	23.86	11.93	5.96	2.98	
80	14.58	7.29	3.65		
100	8.49	4.25	2.12		

＊連続稼動　　(最小実力値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=100%
Ta=60℃　Io=70%



型名： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C57

設置方向：D方向　　Vo=+5V, +12V, -12V

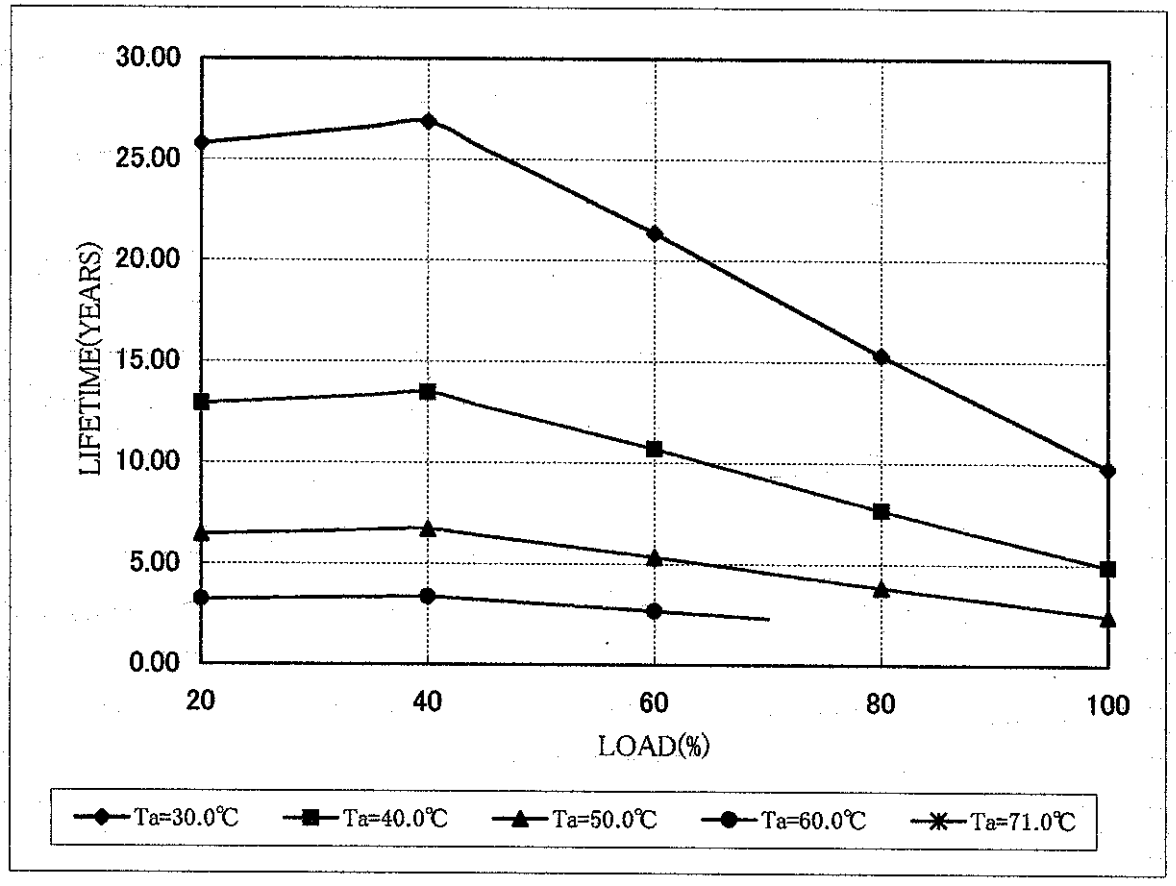
Vin=240V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	25.79	12.90	6.45	3.22	
40	26.89	13.45	6.72	3.36	
60	21.35	10.68	5.34	2.67	
80	15.31	7.65	3.83		
100	9.76	4.88	2.44		

＊連続稼動　(最小実力値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=100%
Ta=60℃　Io=70%



型名： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2,C56,C57

設置方向：E方向　　Vo=+5V,+12V,-12V

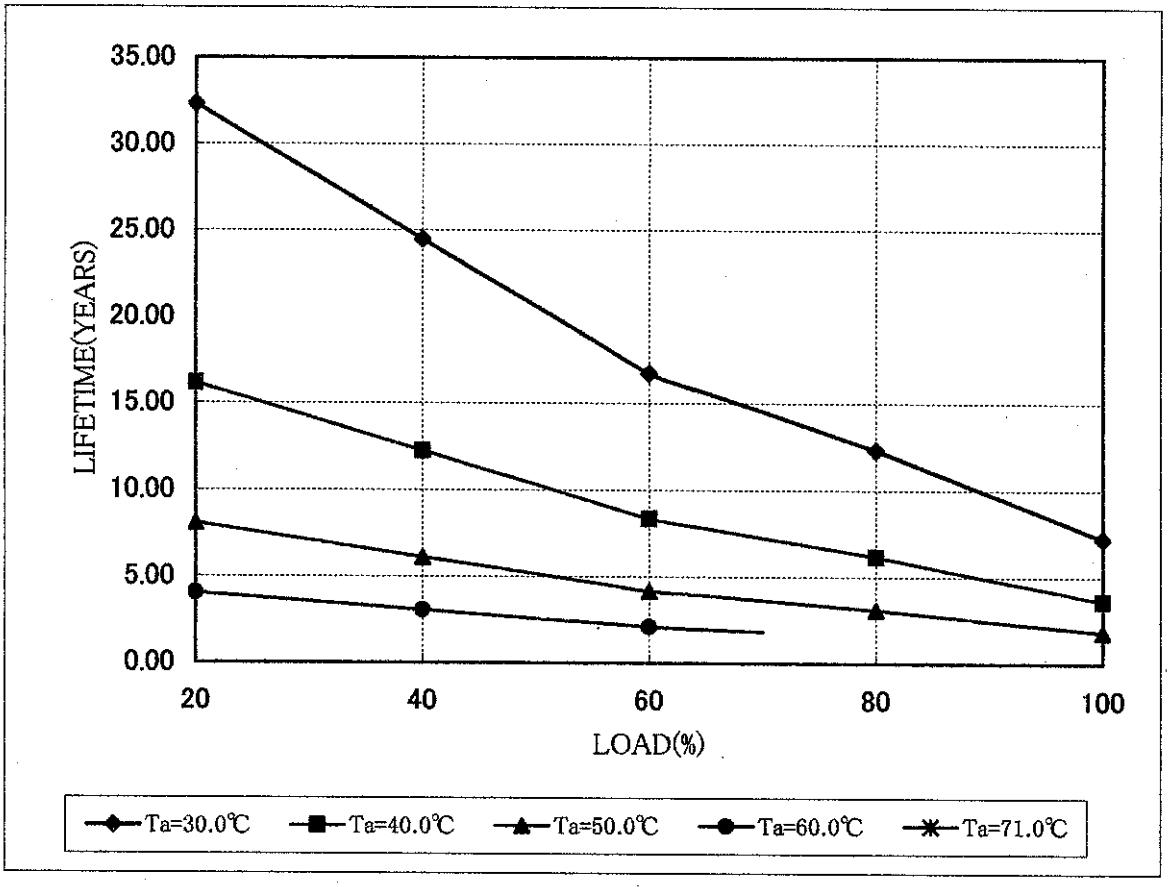
Vin=AC100V　　Io=(100%)=2.0A,0.3A,0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	32.31	16.16	8.08	4.04	
40	24.49	12.24	6.12	3.06	
60	16.73	8.36	4.18	2.09	
80	12.33	6.16	3.08		
100	7.23	3.61	1.81		

＊連続稼動　　(最小保証値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=100%
Ta=60℃　Io=70%



型名： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C57

設置方向：E方向　　Vo=+5V, +12V, -12V

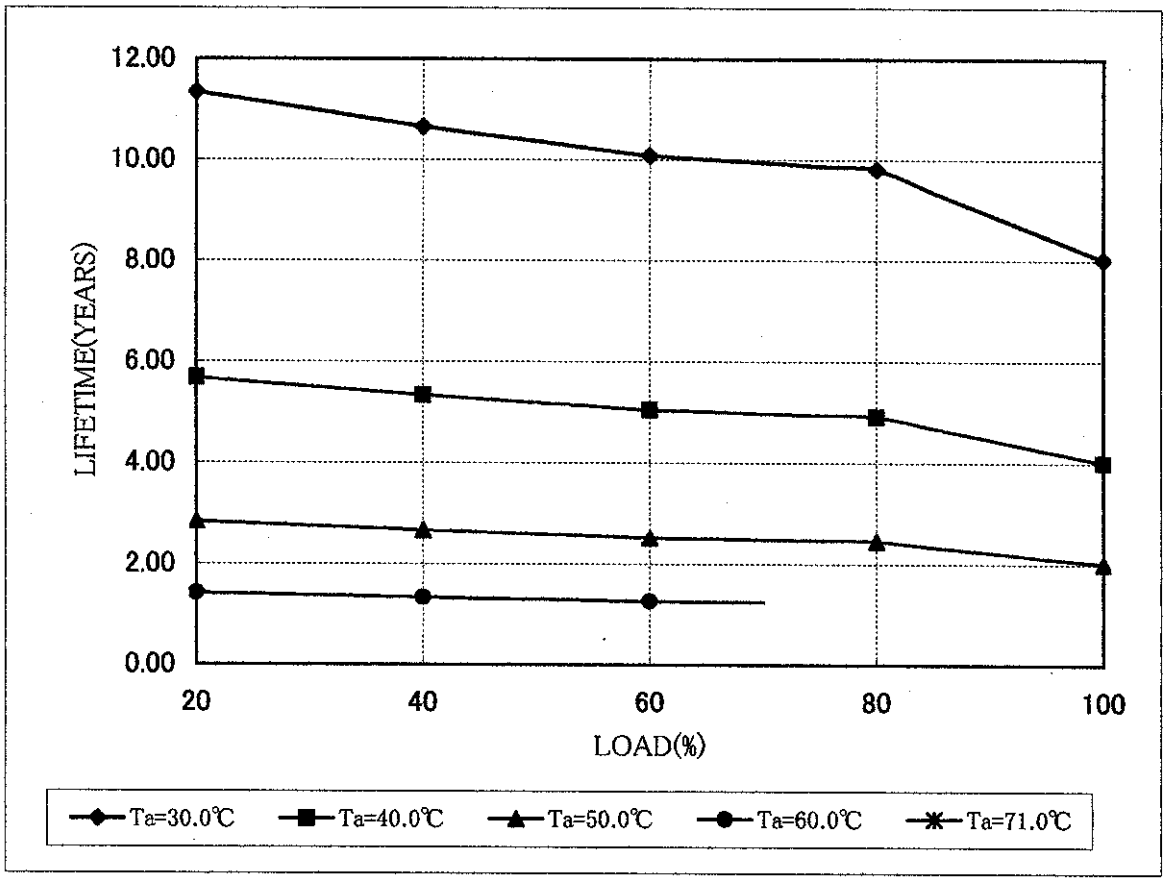
Vin=240V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	11.34	5.67	2.84	1.42	
40	10.66	5.33	2.66	1.33	
60	10.08	5.04	2.52	1.26	
80	9.81	4.90	2.45		
100	8.02	4.01	2.01		

＊連続稼動 （最小保証値）

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=100%
Ta=60℃　Io=70%



型名 ： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C56, C57

設置方向 ： E方向　　Vo=+5V, +12V, -12V

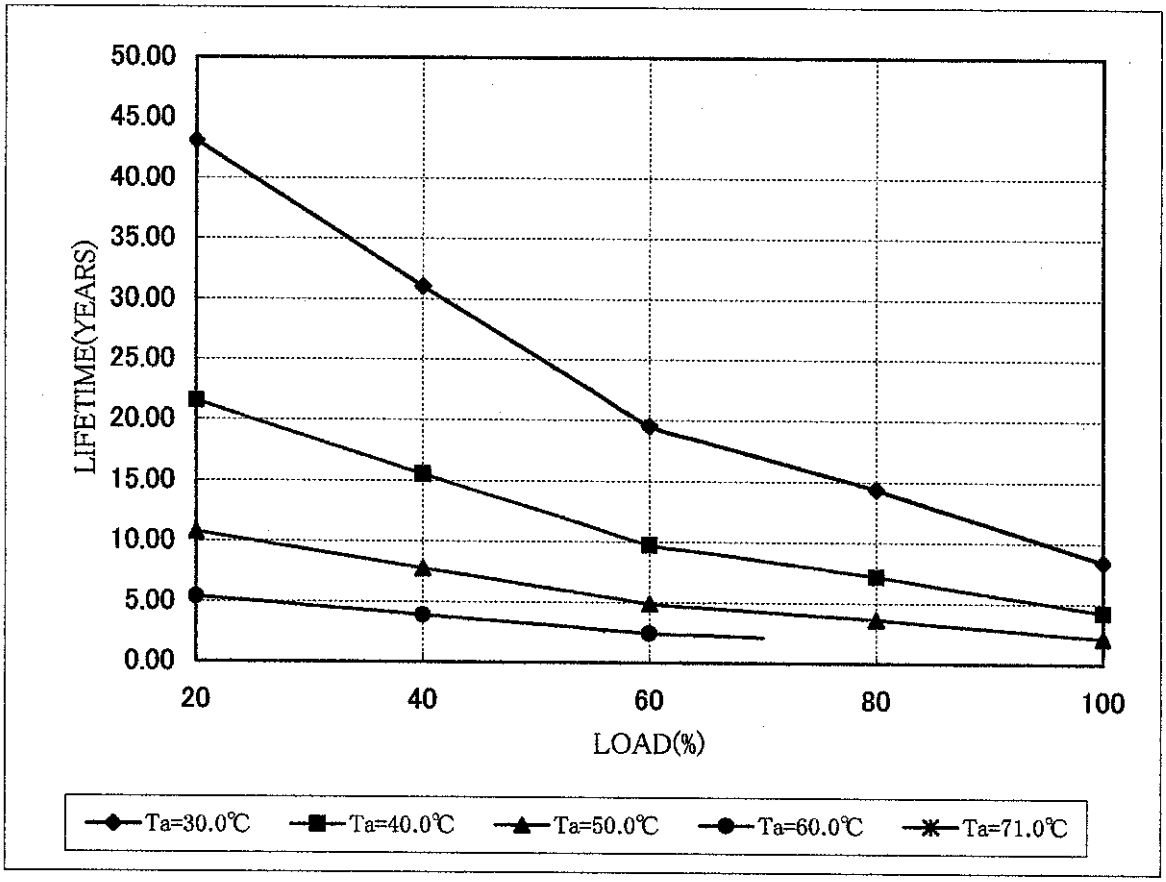
Vin=AC100V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	43.08	21.54	10.77	5.39	
40	31.05	15.52	7.76	3.88	
60	19.51	9.76	4.88	2.44	
80	14.38	7.19	3.60		
100	8.43	4.22	2.11		

＊連続稼動　　(最小実力値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=100%
Ta=60℃　Io=70%



型名 ： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C57

設置方向 : E方向　　Vo=+5V, +12V, -12V

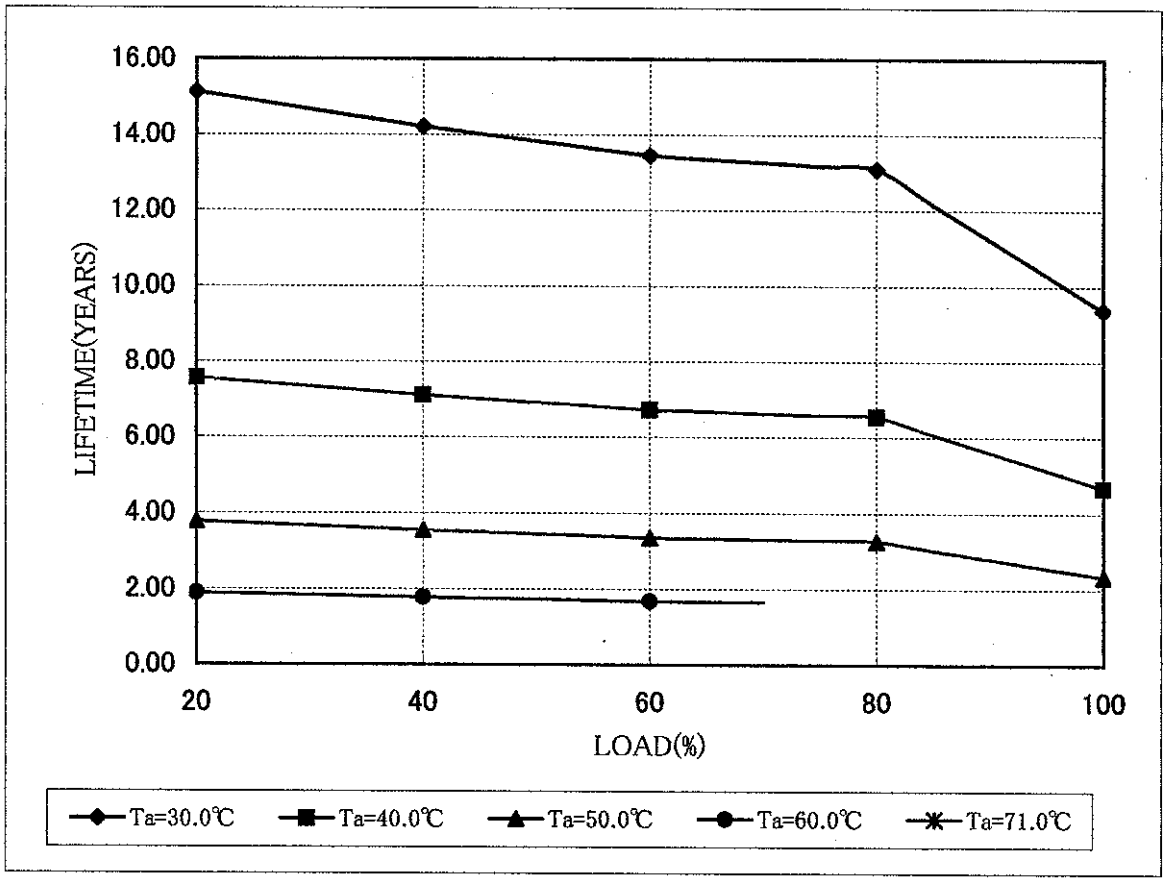
Vin=240V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	15.13	7.56	3.78	1.89	
40	14.21	7.11	3.55	1.78	
60	13.45	6.72	3.36	1.68	
80	13.08	6.54	3.27		
100	9.36	4.68	2.34		

＊連続稼動 （最小実力値）

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=100%
Ta=60℃　Io=70%



型名 ： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C56, C57

設置方向 ： F方向　　Vo=+5V, +12V, -12V

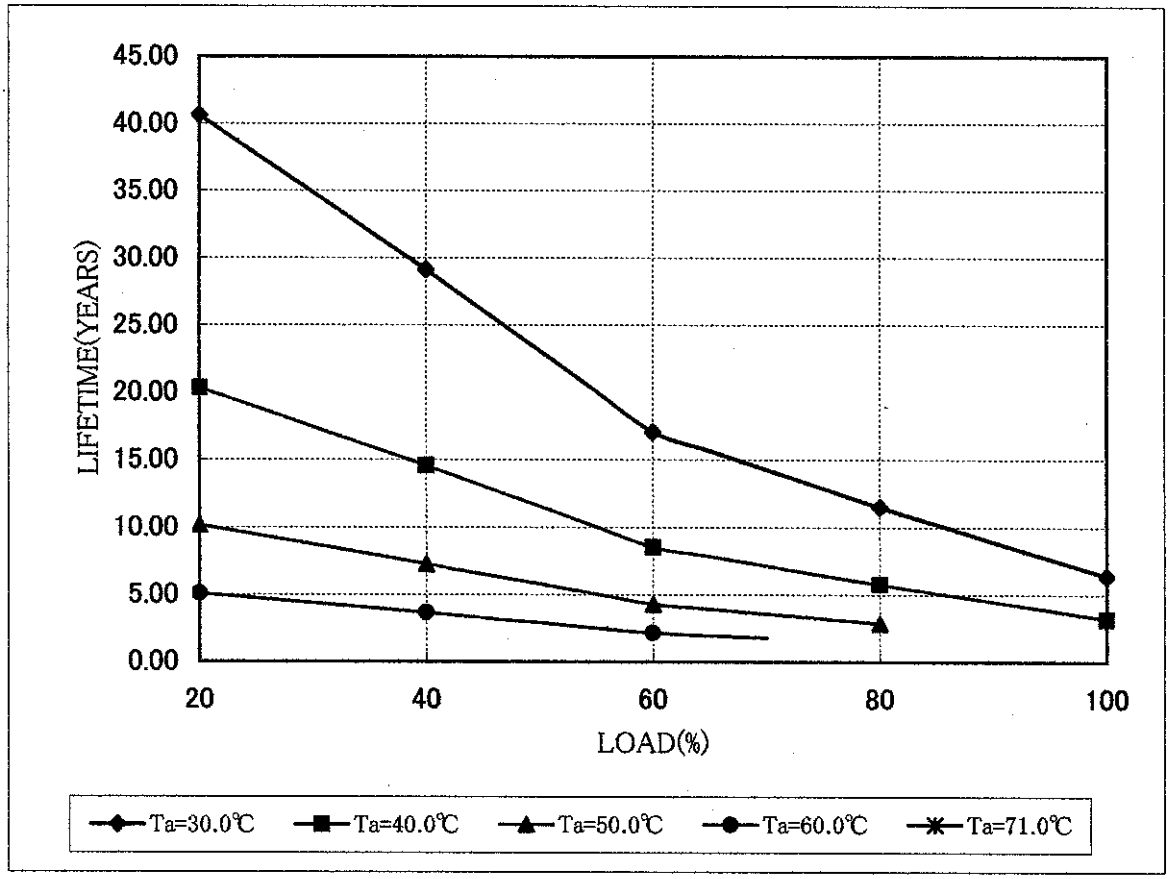
Vin=AC100V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	40.62	20.31	10.15	5.08	
40	29.12	14.56	7.28	3.64	
60	17.08	8.54	4.27	2.13	
80	11.50	5.75	2.88		
100	6.38	3.19			

＊連続稼動　　(最小保証値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=80%
Ta=60℃　Io=70%



型名： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C56, C57

設置方向：F方向　　Vo=+5V, +12V, -12V

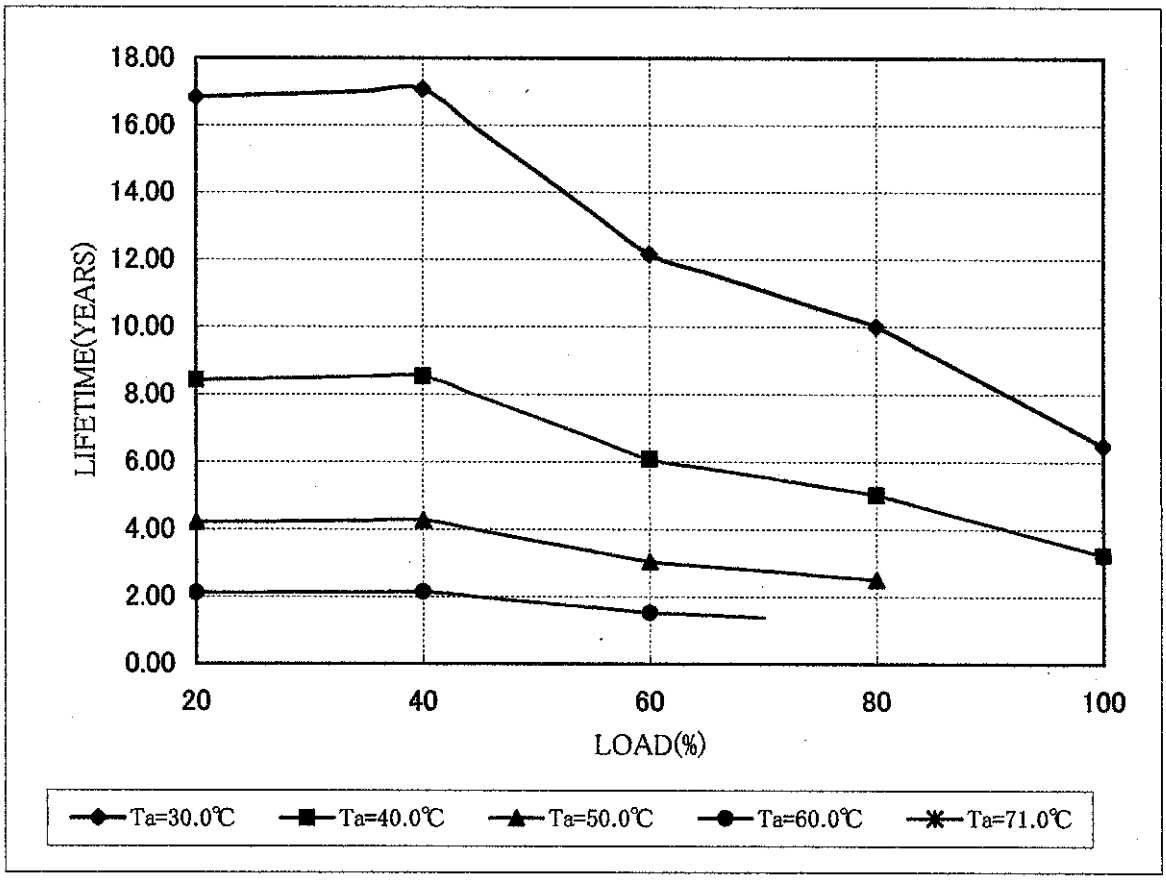
Vin=240V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	16.84	8.42	4.21	2.11	
40	17.08	8.54	4.27	2.13	
60	12.16	6.08	3.04	1.52	
80	10.01	5.01	2.50		
100	6.47	3.24			

＊連続稼動　(最小保証値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=80%
Ta=60℃　Io=70%



型名 ： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C56, C57

設置方向 ： F 方向　　Vo=+5V, +12V, -12V

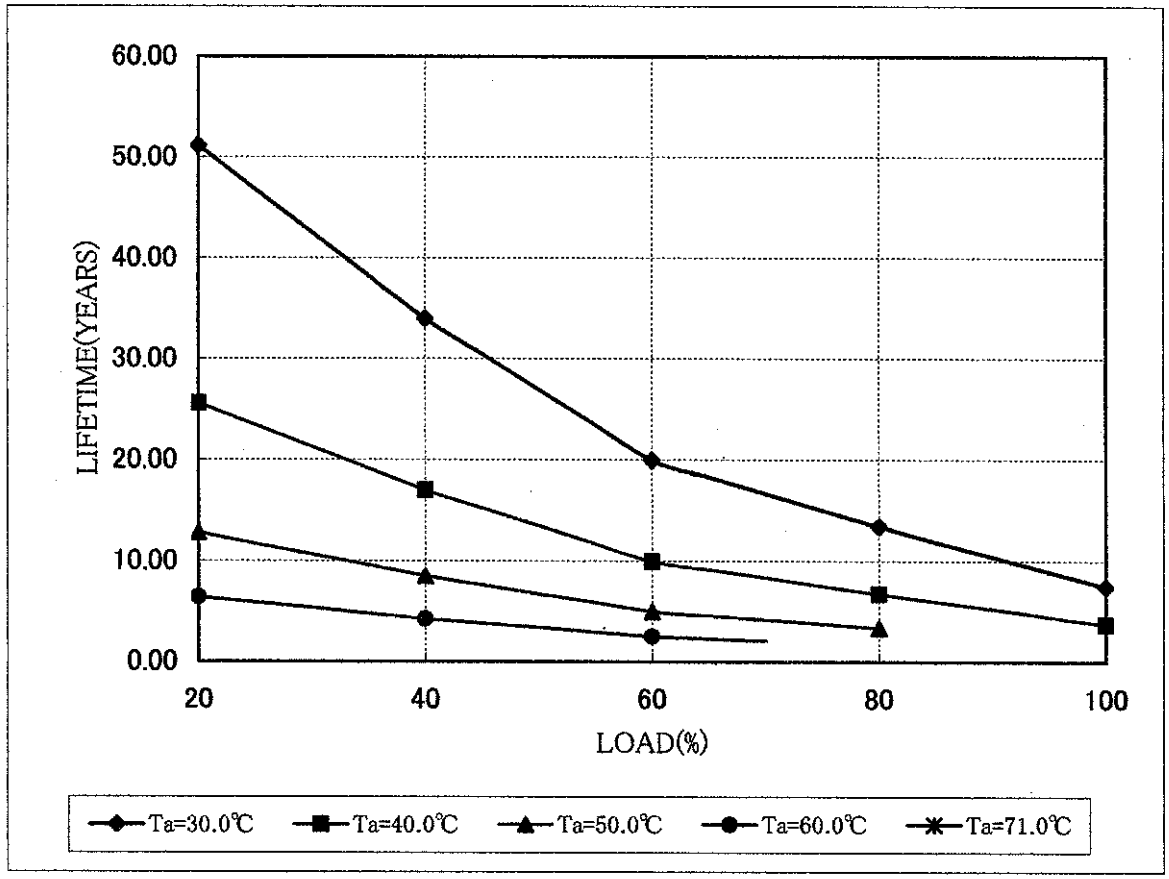
Vin=AC100V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	51.14	25.57	12.79	6.39	
40	33.97	16.99	8.49	4.25	
60	19.92	9.96	4.98	2.49	
80	13.42	6.71	3.36		
100	7.45	3.72			

＊連続稼動　　(最小実力値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=80%
Ta=60℃　Io=70%



型名： MTW15-51212

05/08/09

電解ｺﾝﾃﾞﾝｻ算出寿命　　部品No:C2, C56, C57

設置方向：Ｆ方向　　Vo=+5V, +12V, -12V

Vin=240V　　Io=(100%)=2.0A, 0.3A, 0.2A

LOAD (%)	LIFETIME (YEARS)				
	Ta=30.0℃	Ta=40.0℃	Ta=50.0℃	Ta=60.0℃	Ta=71.0℃
20	22.46	11.23	5.61	2.81	
40	19.92	9.96	4.98	2.49	
60	14.18	7.09	3.55	1.77	
80	11.68	5.84	2.92		
100	7.55	3.77			

＊連続稼動　(最小実力値)

出力ﾃﾞｨﾚｰﾃｨﾝｸﾞ率(使用可能範囲)

Ta=40℃　Io=100%　Ta=71℃　Io=0%
Ta=50℃　Io=80%
Ta=60℃　Io=70%