



Test Report: LAD-600CU/C

600W Economical Security/Fire Alarm PSU with Battery
Charger/PSU

■ DESIGN VERIFY TEST

Output Function Test
Input Function Test
Protection Function Test
Control Function Test
Component Stress Test

■ SAFETY & E.M.C. TEST

Safety Test
E.M.C. Test

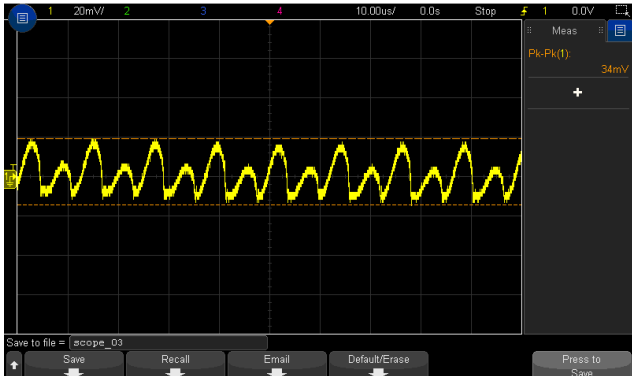
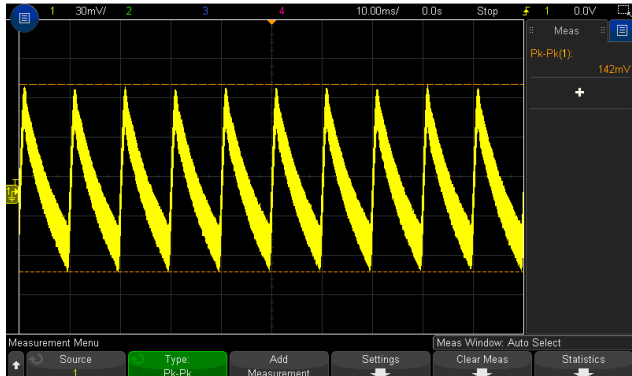
■ RELIABILITY TEST

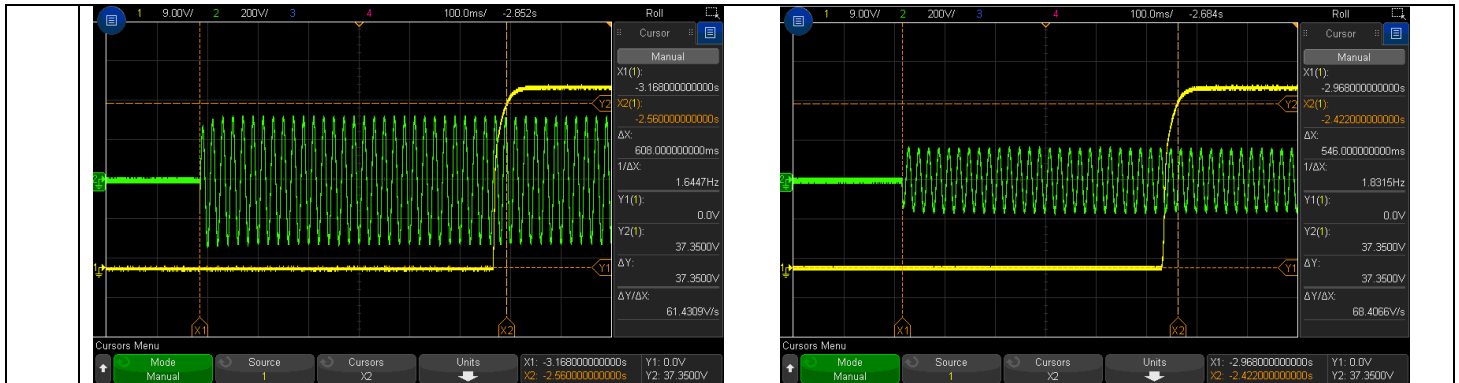
ENVIRONMENT TEST

LAD-600CU

DESIGN VERIFY TEST

OUTPUT FUNCTION TEST

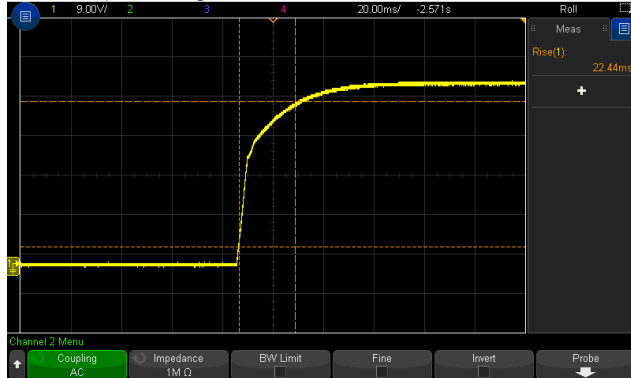
NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE ADJUST RANGE	CH1: 32.4V~ 43.5V	I/P : 230 VAC I/P : 115 VAC O/P : MIN LOAD Ta : 25°C	30.23V~44.75V/230VAC 30.24V~44.74V/115VAC
2	OUTPUT VOLTAGE(Max) TOLERANCE	V1: -1% ~ +1 %	I/P: 230VAC O/P:FULL/ MIN. LOAD Ta:25°C	V1: -0.1 %~ 0.12%
3	LINE REGULATION (Max)	V1: -0.5 %~ +0.5 %	I/P: 90VAC~ 264VAC O/P:FULL LOAD Ta:25°C	V1: -0.02%~ 0.03%
4	LOAD REGULATION(Max)	V1: -0.5 %~ +0.5 %	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.1%~ 0.12%
5	OVER/UNDERSHOOT TEST	<±5%	I/P: 230VAC O/P:FULL LOAD Ta:25°C	-2.9 %
6	RIPPLE & NOISE(Max)	V1: 360mVp-p	I/P:230VAC O/P: TESTING LOAD Ta:25°C	V1: 142mVp-p
<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>high frequency :</p>  </div> <div style="text-align: center;"> <p>low frequency :</p>  </div> </div>				
7	SET UP TIME(Max)	230VAC/2000ms 115VAC/2000ms	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/608 ms 115VAC/546 ms
INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage			INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH2 : AC Input Voltage	



8	RISE TIME (Max)	230VAC/50ms 115VAC/50ms	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/22.44 ms 115VAC/ 24.19ms
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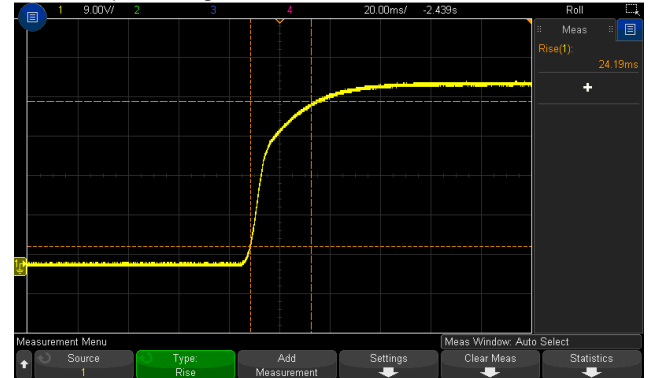
INPUT=230VAC/50HZ @ FULL LOAD

CH1 : Output Voltage



INPUT=115VAC/60HZ @ FULL LOAD

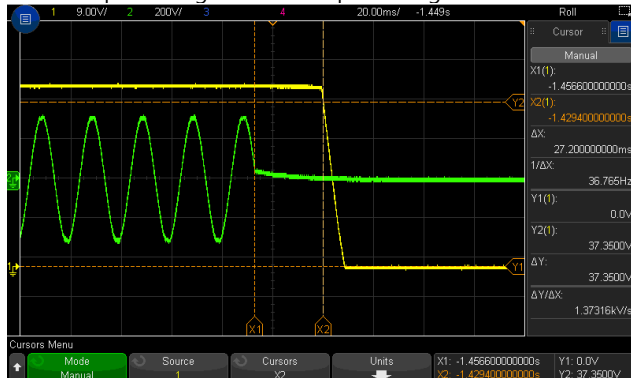
CH1 : Output Voltage



9	HOLD UP TIME (Typ.)	230VAC/16ms 115VAC/12ms	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/27.2 ms 115VAC/ 19.2ms
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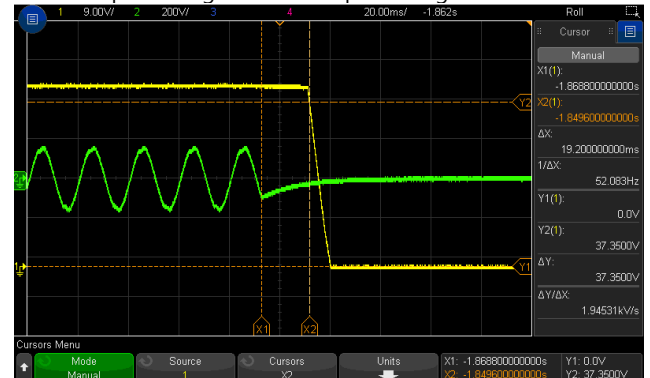
INPUT=230VAC/50HZ @ FULL LOAD

CH1 : Output Voltage CH2 : AC Input Voltage



INPUT=115VAC/60HZ @ FULL LOAD

CH1 : Output Voltage CH2 : AC Input Voltage



10	DYNAMIC LOAD	V1: 4150mVp-p	I/P: 230VAC O/P: (1)FULL /MIN LOAD 50%DUTY / 120HZ (2)FULL /MIN LOAD 50%DUTY / 1KHZ Ta:25°C	1640mVp-p 742mVp-p
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11	Battery static discharge current	After battery low protection <100uA	I/P : 230 VAC O/P : TESTING Ta : 25°C	0.05uA
12	BAT RATED CURRENT	3±0.3 A	I/P: 230VAC O/P:CV=36V Ta:25°C	2.94A

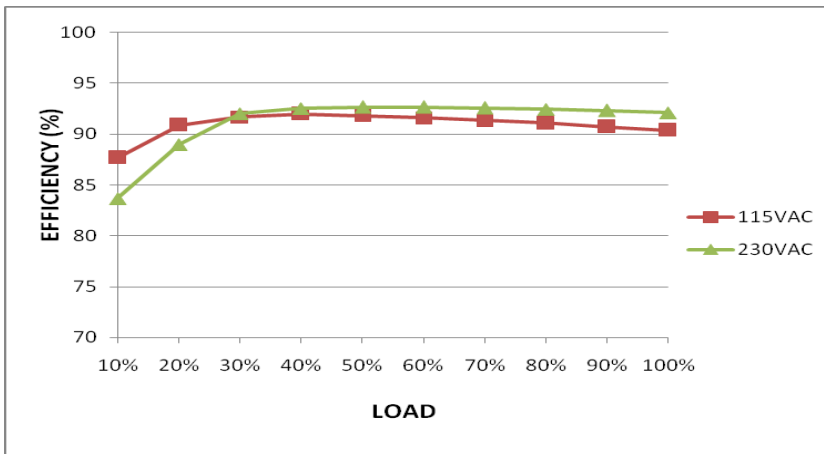
INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	90 ~ 132VAC / 180 ~ 264VAC by switch 240 ~ 370VDC (Default switch at 230VAC) 	(1) I/P:TESTING O/P:FULL LOAD (2) I/P:DC TESTING(L:+ N:-) O/P: FULL / 80% LOAD (switch on 230VAC) (3) I/P:DC TESTING(L:- N:+) O/P: FULL / 80% LOAD (switch on 230VAC) Ta:25°C I/P: switch on 115VAC : LOW-LINE-3V=87 V HIGH-LINE+15%=150V switch on 230VAC : LOW-LINE-3V=177 V HIGH-LINE+15%=300 VO/P:FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN (POWER ON/OFF NO DAMAGE)	(1) 85V~132V/ FULL LOAD 82V~132V/ 80% LOAD 160V~264V/ FULL LOAD 160V~264V/ 80% LOAD (switch on 230VAC) (2) 236.4Vdc~370Vdc/FULL LOAD 236.4Vdc~370Vdc/80% LOAD (3) 236.4Vdc~370Vdc/FULL LOAD 236.4Vdc~370Vdc/80% LOAD TEST: OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P: 90 ~ 132VAC / 180 ~ 264VAC by switch O/P:FULL~MIN LOAD Ta:25°C	TEST: OK



3	INPUT CURRENT (Typ.)	230V/ 7.5 A 115V/ 12 A	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I =5.53A/ 230VAC I =9.25A/ 115VAC
4	LEAKAGE CURRENT	< 0.5mA Peak / 240 VAC	I/P : 240 VAC O/P : Min LOAD Ta : 25°C	<u>0.457</u> mA(PEAK) <u>0.214</u> mA (RMS)
5	EFFICIENCY(Typ.)	91%	I/P:230 VAC O/P:FULL LOAD Ta:25°C	91.4%

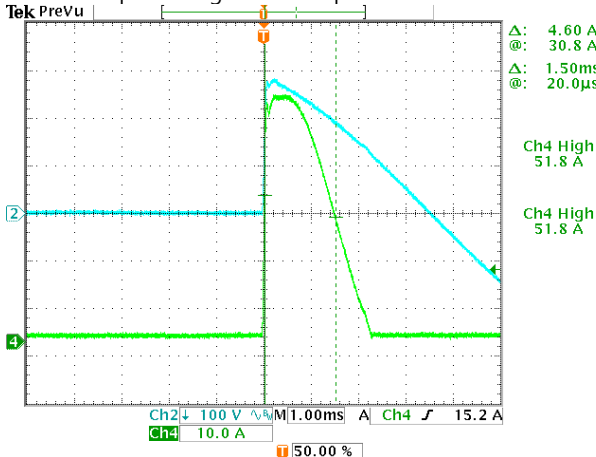
EFFICIENCY vs LOAD



6	INRUSH CURRENT(Typ.)	230V/60A 115V/35A COLD START	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I =51.8A/ 230VAC T50= 1.50ms/230V I =21.4A/ 115VAC T50= 2.18ms/115V
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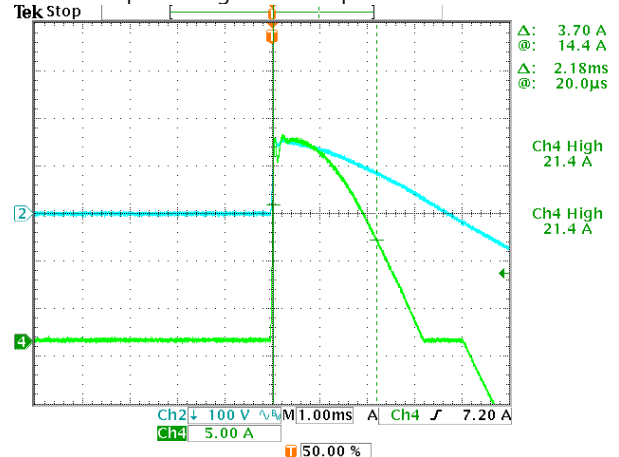
INPUT=230VAC/50HZ @ FULL LOAD

CH2 : AC Input Voltage CH4 : Input current



INPUT=115VAC/ 60HZ @ FULL LOAD

CH2 : AC Input Voltage CH4 : Input current



PROTECTION FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OVER LOAD PROTECTION	<p>CH1 : 105%~135%</p> <p>CH2 : 90 ~ 110%</p> <p>Protection type :</p> <p>CH1 OLP, CH2 with battery: The unit will enter to UPS mode when CH1 is around 105%~120%, when total output of CH1 + CH2 reach around 125%~135% output shuts down</p> <p>CH1 OLP, CH2 without battery: Shut down o/p voltage, re-power on to removed</p> <p>CH2 : Constant current limiting; fault condition does not affect CH1 working, recovers automatically after fault condition is removed (External fuse is mandatory in series connection with battery for protection)</p>	<p>I/P: 264VAC</p> <p>I/P: 230VAC</p> <p>I/P: 100VAC</p> <p>O/P:TESTING</p> <p>Ta:25°C</p>	<p>118.1%/ 264VAC</p> <p>118.1%/ 230VAC</p> <p>118.1%/100VAC</p> <p>Protection type :</p> <p>CH1 OLP, CH2 with battery: The unit will enter to UPS mode when CH1 is around 105%~120%, when total output of CH1 + CH2 reach around 125%~135% output shuts down</p> <p>CH1 OLP, CH2 without battery: Shut down o/p voltage, re-power on to removed</p> <p>CH2 : Constant current limiting; fault condition does not affect CH1 working, recovers automatically after fault condition is removed (External fuse is mandatory in series connection with battery for protection)</p>
2	OVER VOLTAGE PROTECTION	<p>CH1: 47V~55V</p> <p>Protection type : Shut down o/p voltage, re-power on to removed</p>	<p>I/P: 264VAC</p> <p>I/P: 230VAC</p> <p>I/P: 90VAC</p> <p>O/P:MIN LOAD</p> <p>Ta:25°C</p>	<p>49.4V/ 264VAC</p> <p>49.4V/ 230VAC</p> <p>49.4V/ 90VAC</p> <p>Protection type : Shut down o/p voltage, re-power on to removed</p>
3	OVER TEMPERATURE PROTECTION	<p>Protection type :</p> <p>Protection type : Shut down o/p voltage, re-power on to removed</p>	<p>I/P: 264VAC</p> <p>I/P: 90VAC</p> <p>O/P:FULL LOAD</p>	<p>O.T.P. Active OK</p> <p>Protection type :</p> <p>Protection type : Shut down o/p voltage, re-power on to removed</p>
4	BATTERY CUTOFF	<p>32±0.5V</p>	<p>I/P: 230 VAC</p> <p>O/P:BAT. LOAD</p> <p>Ta:25°C</p>	<p><u>31.98</u> V</p>
5	BATTERY REVERSE POLARITY	<p>Protection type :</p> <p>Protected by reverse polarity , no damage, recovers automatically after fault condition is removed</p>	<p>I/P: 230 VAC</p> <p>O/P:BAT. LOAD</p> <p>Ta:25°C</p>	<p>TEST : <u>OK</u></p>

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	AC OK	115VAC Input : Signals AC failure and activates when input voltage <75VAC Recover the main power supply when input voltage >87VAC 230VAC Input : Signals AC failure and activates when input voltage <165VAC Recover the main power supply when input voltage >175VAC	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	TEST : (1) 115VAC : ≤ <u>79.7V</u> AC failure ≥ <u>85.8V</u> AC OK (2) 230VAC : ≤ <u>166.2V</u> AC failure ≥ <u>176.1V</u> AC OK
2	CHARGER CIRCUIT FAIL	Battery disconnected, battery reverse polarity , signal failure	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	TEST: <u>OK</u>
3	BUZZER ALARM	Battery low(fire alarm system selectable by UART) AC fail, Battery low, battery disconnected, battery reverse connect, overload status (evacuation system selectable by UART)	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	TEST: <u>OK</u>

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q 1/Q2 Rated : 26A/ 600V	AC ON/OFF I/P: High-Line +3V =267V VDS: O/P:(1) Full Load (2) Output Short (3) Dynamic Load Full Load/ Min. Load 90%Duty/1KHz (4) Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5) Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (6) Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. Ta:25°C	Q1 Q2 VDS: VDS: (1) 440V (1) 436V (2) 444V (2) 428V (3) 432V (3) 432V (4) 432V (4) 428V (5) 440V (5) 428V (6) 432V (6) 428V (7) 440V (7) 428V



2	BAT BUCK Transistor (D to S) or (C to E) Peak Voltage	Q 304 Rated : 53A/100V	AC ON/OFF I/P:High-Line +3V = 267 V VDS : O/P: (1)CV (max)-1=40.5V (2)CV(min)=31.5V (3)no load (4)OUTPUT SHORT Ta:25°C	Q304 VDS : (1) 51.0V (2) 51.8V (3) 51.0V (4) 51.4V
3	Diode Peak Voltage	D100 /D103 Rated : 30A/150V	AC ON/OFF I/P:High-Line +3V =267V <u>Vo=Vmax</u> O/P: (1)Full Load (2)Output Short (3)Dynamic Load Full Load/ Min. Load 90%Duty/1KHz (4)Dynamic Load Full Load/ Min. Load 90%Duty/3KHz (5)Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (6)Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz (7)0%→400% Load. (8)NO LOAD <u>Vo=Vnormal</u> O/P: (1)Full Load Ta:25°C	D100: <u>Vo=Vmax</u> VDS: (1) 104.8V (2) 104.8V (3) 104.8V (4) 104.8V (5) 104.8V (6) 104.8V (7) 102.4V (8) 102.4V <u>Vo=Vnormal</u> (1) 100.8V D103: <u>Vo=Vmax</u> VDS: (1) 108.8V (2) 126.5V (3) 109.6V (4) 109.6V (5) 108.8V (6) 116.1V (7) 114.5V (8) 102.4V <u>Vo=Vnormal</u> (1) 106.4V
4	BAT BUCK Diode Peak Voltage	D320 Rated : 10A/100V	AC ON/OFF I/P:High-Line +3V = 267 V VDS : O/P: (1)CV (max)-1=40.5V (2)CV(min)= 31.5V (3)no load (4)OUTPUT SHORT Ta:25°C	D320 VDS : (1) 42.6V (2) 42.2V (3) 42.2V (4) 43.8V
5	Input Capacitor Voltage	C5/C6 Rated: : 1000μ / 200V	I/P:High-Line +3V =267V O/P: (1)Full Load input on/off (2) Min load input on /Off (3)Full Load /Min load Change (4)Full load continue Ta:25°C	C5 (1)198V (2)194V (3)198V (4)198V C6 (1)196V (2)192V (3)196V (4)196V
6	Control IC Voltage Test	PWM IC U1 Rated 8.9 V~ 15.5V MCU IC U300 Rated 2.4V~ 3.6V BAT BUCK IC U304 Rated 8.5V~ 30V	AC ON/OFF U1/U300 I/P:High-Line +3V =267V O/P:(1)FULL LOAD (2) Output Short (3)O.L.P (4)O.V.P. (5)NO LOAD VRmin(LOW LINE) U304	U1 (1) 14.40V (2) 14.16V (3) 14.20V (4) 14.24V (5) 12.39V U300 (1) 3.35V U304 : (1) 11.45V (2) 11.45V (3) 11.45V (4) 11.45V

			I/P:High-Line +3V = 267 V VDS : O/P: (1)CV (max)-1=40.5V (2)CV(min)=31.5V (3)no load (4)OUTPUT SHORT Ta:25°C	(2) 3.35V (3) 3.35V (4) 3.35V (5) 3.35V	
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■ SAFETY& E.M.C. TEST

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC/min I/P-FG :2KVAC/min O/P-FG:0.5KVAC/min	I/P-O/P: 3.6 KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG:0.6 KVAC/min Ta:25°C	I/P-O/P: 2.82mA I/P-FG: 2.75mA O/P-FG: 2.07 m A NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ I/P-FG: 500VDC>100MΩ O/P-FG:500VDC>100MΩ	I/P-O/P: 600 VDC I/P-FG: 600 VDC O/P-FG: 600 VDC Ta:25°C	I/P-O/P: 9999MΩ I/P-FG: 9999MΩ O/P-FG: 9999MΩ NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100mΩ	40A / 2min Ta:25°C	8mΩ

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CONDUCTION	BS EN/EN55032 (CISPR32), EAC TP TC 020 CLASS A	I/P : 230 VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C	PASS Test by certified Lab
2	RADIATION	BS EN/EN55032 (CISPR32), EAC TP TC 020 CLASS A	I/P : 230 VAC (50HZ) O/P : FULL LOAD Ta : 25°C	PASS Test by certified Lab
3	E.S.D	BS EN/EN61000-4-2 Level 3, 8KV air Level 2, 6KV contact	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	<input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B
4	E.F.T	BS EN/EN61000-4-4 INPUT : 2KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	<input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B
5	SURGE	BS EN/EN61000-4-5 Level 3, 1KV/Line-Line 2KV/Line-FG	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	<input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B
6	Test by certified Lab & Test Report Prepare Any contradictions of the test results, please refer to the latest EMC test report			

LAD-600C

CONTROL FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	AC OK	TTL signal, High/Open : AC OK ; Low : AC Fail ; Ice : max. 30mA@ 50VDC	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	Test: <u>OK</u>
2	DISCHARGE	TTL signal, High/Open : Discharge ; Low : Charge ; Ice : max. 30mA@ 50VDC	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	Test: <u>OK</u>
3	BATTERY FULL	TTL signal, High/Open : Battery full ; Low : Battery charging ; Ice : max. 30mA@ 50VDC	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	Test: <u>OK</u>
4	BATTERY DISCONNECT/ REVERSE POLARITY	TTL signal, High/Open :Battery disconnect/reverse polarity ; Low : Battery connect/normal; Ice : max. 30mA@ 50VDC	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	Test: <u>OK</u>
5	BATTERY LOW	TTL signal, High/Open : Battery low ; Low : Battery normal; Ice : max. 30mA@ 50VDC	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	Test: <u>OK</u>
6	FORCE START	CN2 : PIN7&PIN8 SHORT	I/P: 230 VAC O/P:BAT. LOAD Ta:25°C	TEST : <u>OK</u>

■ SAFETY& E.M.C. TEST

SAFETY TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	WITHSTAND VOLTAGE	I/P-O/P: 3KVAC/min I/P-FG :2KVAC/min O/P-FG:0.5KVAC/min	I/P-O/P: 3.6 KVAC/min I/P-FG: 2.4 KVAC/min O/P-FG:0.6 KVAC/min Ta:25°C	I/P-O/P: 2.83mA I/P-FG: 2.77mA O/P-FG: 2.12 mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ I/P-FG: 500VDC>100MΩ O/P-FG:500VDC>100MΩ	I/P-O/P: 600 VDC I/P-FG: 600 VDC O/P-FG: 600 VDC Ta:25°C	I/P-O/P: 9999MΩ I/P-FG: 9999MΩ O/P-FG: 9999MΩ NO DAMAGE
3	GROUNDING CONTINUITY	FG(PE) TO CHASSIS OR TRACE < 100mΩ	40A / 2min Ta:25°C	8mΩ

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	CONDUCTION	BS EN/EN55032 (CISPR32), EAC TP TC 020 CLASS A	I/P : 230 VAC (50HZ) O/P : FULL/50% LOAD Ta : 25°C	PASS Test by certified Lab
2	RADIATION	BS EN/EN55032 (CISPR32), EAC TP TC 020 CLASS A	I/P : 230 VAC (50HZ) O/P : FULL LOAD Ta : 25°C	PASS Test by certified Lab
3	E.S.D	BS EN/EN61000-4-2 Level 3, 8KV air Level 2, 6KV contact	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	<input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B
4	E.F.T	BS EN/EN61000-4-4 INPUT : 2KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	<input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B
5	SURGE	BS EN/EN61000-4-5 Level 3, 1KV/Line-Line 2KV/Line-FG	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	<input checked="" type="checkbox"/> CRITERIA A <input type="checkbox"/> CRITERIA B
6	Test by certified Lab & Test Report Prepare Any contradictions of the test results, please refer to the latest EMC test report			

■ RELIABILITY TEST

ENVIRONMENT TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT																																																				
1	TEMPERATURE RISE TEST	MODEL : LAD-600BU 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 25 °C 2. HIGH AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 50 °C																																																						
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2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 116.4%LOAD Ta : 25°C	TEST : OK																																																																																																																																					
3	LOW TEMPERATURE TURN ON TEST	TURN ON AFTER 2 HOUR	I/P : 264VAC/100VAC O/P : 100 %LOAD Ta= -25°C	TEST : OK																																																																																																																																					
4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 50 °C/95 %R.H NO DAMAGE	I/P : 272 VAC O/P : FULL LOAD Ta= 49.7°C HUMIDITY= 95 %R.H	TEST : OK																																																																																																																																					
5	TEMPERATURE COEFFICIENT	±0.03%/°C(0~50°C)	I/P : 230 VAC O/P : FULL LOAD	±0.0078%/°C(0~50°C)																																																																																																																																					



6	STORAGE TEMPERATURE TEST	-30~85°C	1. Thermal shock Temperature : -45°C~ +90°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 10 CYCLE 5. Input/Output condition : STATIC
7	THERMAL SHOCK TEST	-20~50°C	1. Thermal shock Temperature : -25°C~ +55°C 2. Temperature change rate : 25°C / MIN 3. Dwell time low and high temperature : 30 MIN/EACH 4. Total test cycle : 16 CYCLE 5. Input/Output condition : 15cycle:230V/ FULL LOAD AC ON 3sec/AC OFF 1sec TEST 1cycle:230V/ FULL LOAD Burn In Test
8	VIBRATION TEST	10 ~ 500Hz, 5G 10min./1cycle, 60min. each along X, Y, Z axes	1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 12min/sweep cycle (4) Acceleration : 6G (5) Test Time : 180min in each axis (X.Y.Z) (6) Ta : 25°C
9	CAPACITOR LIFE CYCLE	SUPPOSE C111 IS THE MOST CRITICAL COMPONENT (1) I/P : 230VAC O/P : FULL LOAD Ta= 25 °C LIFE TIME (2) I/P : 230VAC O/P : FULL LOAD Ta= 50 °C LIFE TIME (3) I/P : 230VAC O/P : 75% LOAD Ta= 50 °C LIFE TIME (4) I/P : 230VAC O/P : 50% LOAD Ta= 50 °C LIFE TIME	(1) 626097.6HRS (2) 101142.4HRS (3) 198279.4HRS (4) 324958.7HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction LAD-600C: 1154.4K hrs min. Telcordia SR-332 (Bellcore); 169.9K hrs min. MIL-HDBK-217F (25°C) LAD-600CU: 1019.6K hrs min. Telcordia SR-332 (Bellcore); 144.4K hrs min. MIL-HDBK-217F (25°C)	
11	Ongoing Reliability Test	I/P : 230VAC O/P : FULL LOAD TA=50°C Demonstration Mean Time Between Failure : 30,000 hours	

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	Yuwei	Liutt	Wangdz

2020.10.1 TAG-QA-009