



Test Report: GST360A24

360W AC-DC High Reliability Industrial Adaptor

■ 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

DESIGN VERIFY TEST

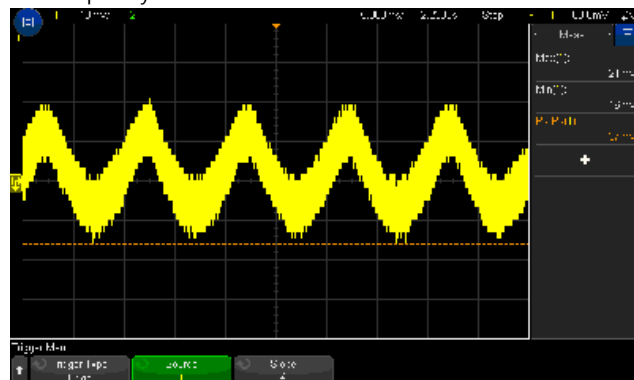
OUTPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	OUTPUT VOLTAGE(Max) TOLERANCE	V1: -3.0%~ +3.0 %	I/P: 85VAC /264VAC O/P:FULL/ MIN. LOAD Ta:25°C	V1: -0.64%~ 0.67%
2	LINE REGULATION (Max)	V1: -1.0%~ +1.0 %	I/P: 85VAC~ 264VAC O/P:FULL LOAD Ta:25°C	V1: -0.02%~0.36%
3	LOAD REGULATION(Max)	V1: -3.0%~ +3.0 %	I/P: 230VAC O/P:FULL ~MIN LOAD Ta:25°C	V1: -0.64%~ 0.67%
4	OVER/UNDERSHOOT TEST	< +5%	I/P: 230VAC O/P:FULL LOAD Ta:25°C	2.1%
5	RIPPLE & NOISE(Max)	V1: 200mVp-p	I/P:230VAC O/P:FULL LOAD Ta:25°C	V1: 37mVp-p

high frequency :

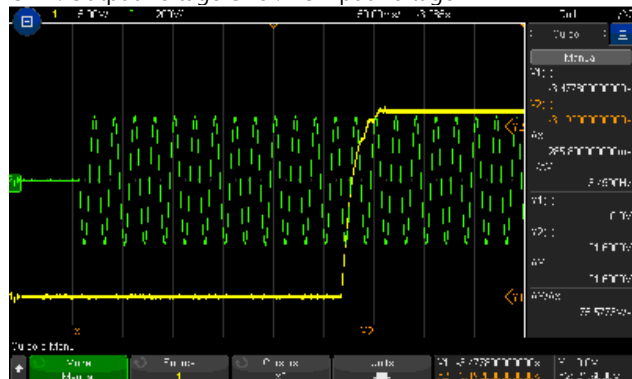


low frequency :

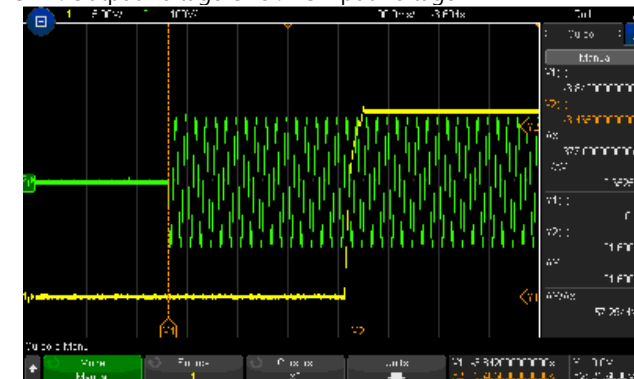


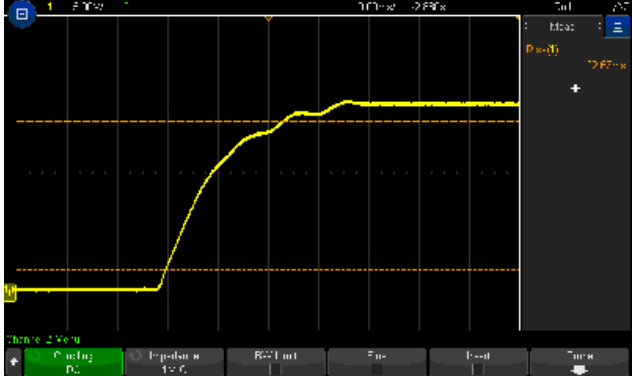
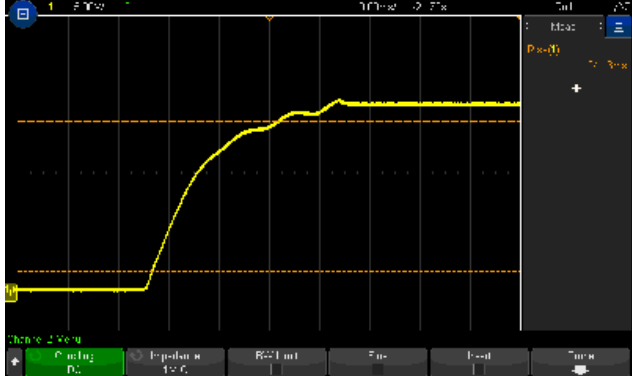
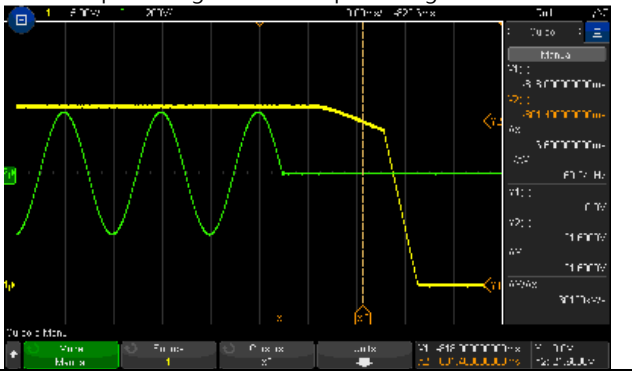
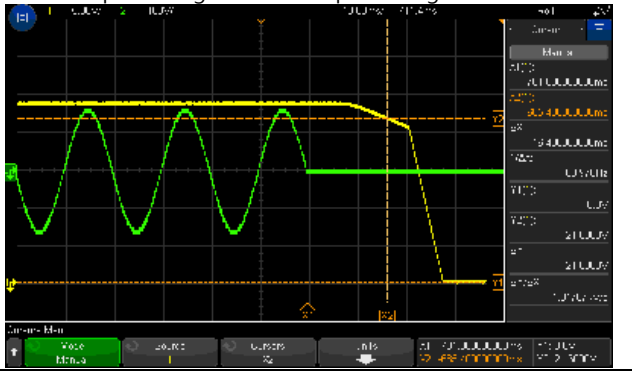
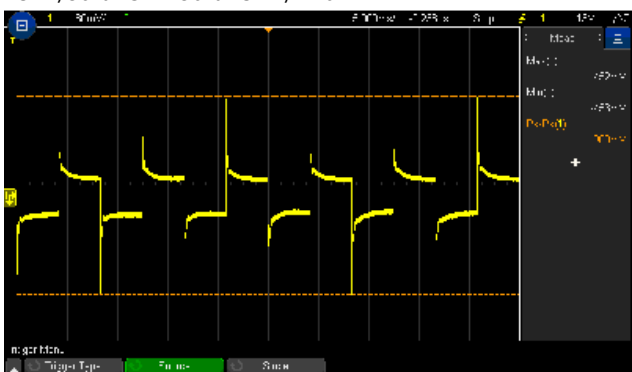
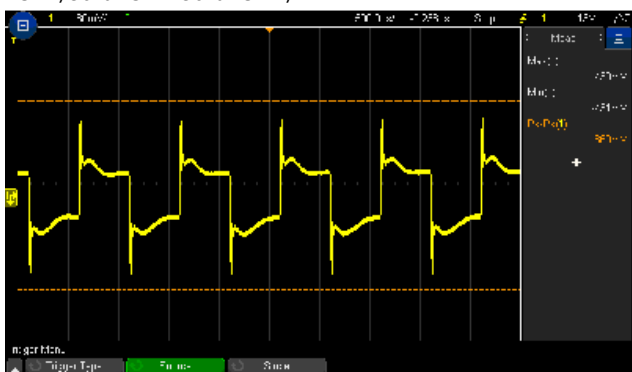
6	SET UP TIME(Max)	230VAC/2000ms 115VAC/2000ms	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/285.8ms 115VAC/377ms
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INPUT=230VAC/50HZ @ FULL LOAD
CH1 : Output Voltage CH3 : AC Input Voltage



INPUT=115VAC/60HZ @ FULL LOAD
CH1 : Output Voltage CH3 : AC Input Voltage



7	RISE TIME (Max)	230VAC/50ms 115VAC/50ms	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/22.67ms 115VAC/24.13ms
	INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage  INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage 			
8	HOLD UP TIME (Typ.)	230VAC/8ms 115VAC/8ms	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/16.6ms 115VAC/16.4ms
	INPUT=230VAC/50HZ @ FULL LOAD CH1 : Output Voltage CH3 : AC Input Voltage  INPUT=115VAC/60HZ @ FULL LOAD CH1 : Output Voltage CH3 : AC Input Voltage 			
9	DYNAMIC LOAD	V1: 2400mVp-p	I/P: 230VAC O/P: (1)FULL/50%LOAD50%DUTY/120HZ (2)FULL/50%LOAD50%DUTY/ 1KHZ Ta:25°C	(1) 900mVp-p (2) 860mVp-p
	FULL /50% LOAD 50%DUTY / 120HZ  FULL /50% LOAD 50%DUTY / 1KHZ 			



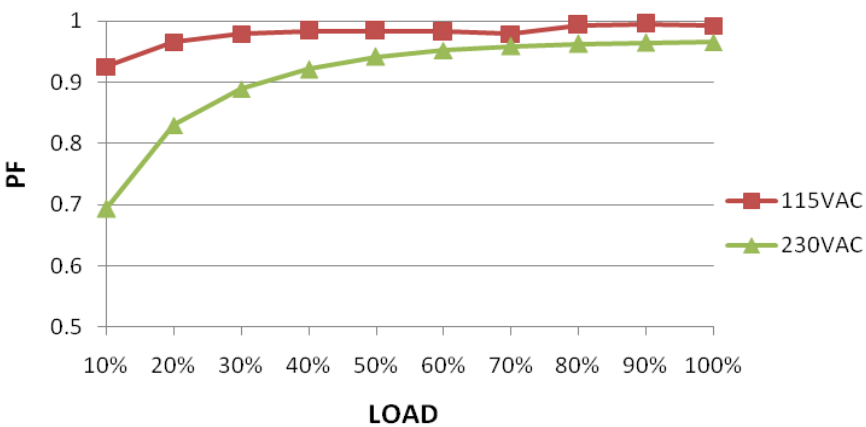
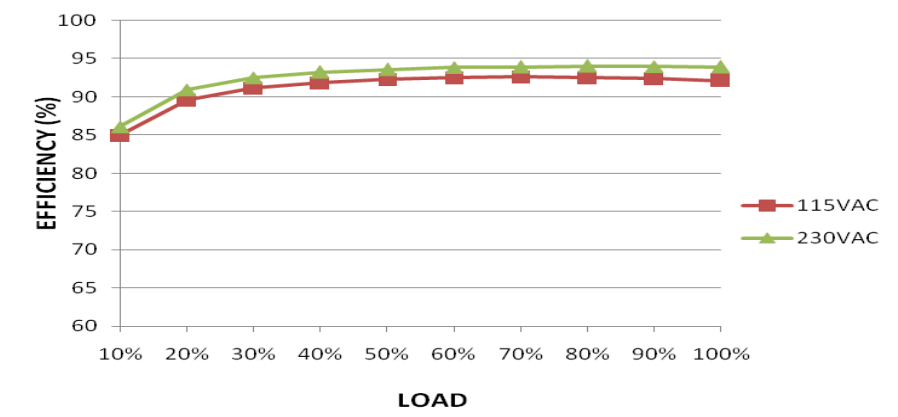
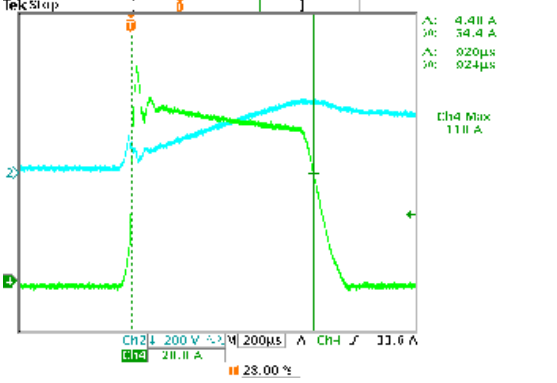
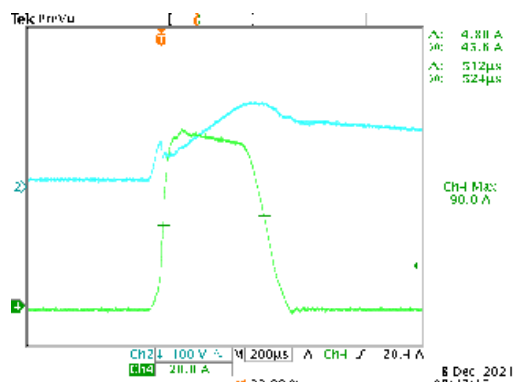
360W AC-DC High Reliability Industrial Adaptor

GST360A series

10	TRANSIENT RECOVERY TIME	V1: 2400mVp-p	I/P: 230VAC O/P:40% LOAD CHANGE 50%DUTY/120HZ 1.25A/us	740mVp-p
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INPUT FUNCTION TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	INPUT VOLTAGE RANGE	85VAC~264VAC 120VDC~ 370VDC	(1) I/P:TESTING O/P:FULL LOAD (2) I/P:DC TESTING(L:+ N:-) O/P: FULL / 50% LOAD (3) I/P:DC TESTING(L:- N:+) O/P: FULL / 50% LOAD Ta:25°C	(1) 77.2V~264V (2) 112Vdc~370Vdc/FULL LOAD 112Vdc~370Vdc/50% LOAD (3)112 Vdc~370Vdc/FULL LOAD 112Vdc~370Vdc/50% LOAD
			I/P: LOW-LINE-3V=82 V HIGH-LINE+15%=300 V O/P:FULL/MIN LOAD (PLEASE CHECK DERATING CURVE) ON: 30 Sec OFF: 30 Sec 10MIN (POWER ON/OFF NO DAMAGE)	TEST:OK
2	INPUT FREQUENCY RANGE	47HZ ~63 HZ NO DAMAGE	I/P:85 VAC ~264 VAC O/P:FULL~MIN LOAD Ta:25°C	TEST: OK
3	INPUT CURRENT (Typ.)	230V/ 2 A 115V/ 3.8 A	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I =1.6978A/ 230VAC I =3.3892A/ 115VAC
4	LEAKAGE CURRENT	< 1.5mA / 240 VAC	I/P : 240 VAC O/P : Min LOAD Ta : 25°C	0.62 mA
5	NO LOAD CONSUMPTION	< 0.5W	I/P : 230VAC O/P : NO LOAD Ta : 25°C	0.35W
6	POWER FACTOR (Typ.)	0.95/ 230VAC 0.98/115VAC	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	PF=0.9660/230VAC PF=0.9899/115VAC
	P.F vs LOAD			

				
7	EFFICIENCY(Typ.)	93%	I/P:230 VAC O/P:FULL LOAD Ta:25°C	94.07%
	EFFICIENCY vs LOAD 			
8	INRUSH CURRENT(Typ.)	230V/120A 115V/95A COLD START	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I =110A/ 230VAC I =90A/ 115VAC T50=895.2us/230V
	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	135%~155 % Protection type : Hiccup mode, recovers automatically after fault condition is removed	I/P: 264VAC I/P: 230VAC I/P: 100VAC O/P: TESTING Ta:25°C	142.33%/ 264VAC 141.87%/ 230VAC 141.83%/100VAC Protection type : Hiccup mode, recovers automatically after fault condition is removed
2	OVER VOLTAGE PROTECTION	105% ~ 135% rated output voltage Protection type : Shut down o/p voltage, re-power on to recover	I/P: 264VAC I/P: 230VAC I/P: 85VAC O/P: MIN LOAD Ta:25°C	28.8V/ 264VAC 28.8V / 230VAC 28.8V ` 85VAC Protection type : Shut down o/p voltage, re-power on to recover
3	OVER TEMPERATURE PROTECTION	Protection type : Shut down o/p voltage, re-power on to recover	I/P: 264VAC I/P: 85VAC O/P: FULL LOAD	O.T.P. Active OK Protection type : Shut down o/p voltage, re-power on to recover

COMPONENT STRESS TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	PWM Transistor (D to S) or (C to E) Peak Voltage	Q3/Q4 Rated : 21A/ 600 V	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	Q3 Q4 VDS: VDS: (1) 452V (1) 452V (2) 452V (2) 444V (3) 448V (3) 452V (4) 448V (4) 448V (5) 452V (5) 448V (6) 452V (6) 448V (7) 456V (7) 448V
2	P.F.C Transistor (D to S) or (C to E) Peak Voltage	Q1/Q2 Rated : 18A/ 600V	I/P: High-Line +3V =267 V AC ON/OFF 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	Q2 Q1 VDS: VDS (1) 500V (1) 480V (2) 444V (2) 432V (3) 496V (3) 481V (4) 496V (4) 480V (5) 496V (5) 480V (6) 488V (6) 476V (7) 492V (7) 472V

			(7)0%→400% Load. Ta:25°C	
3	P.F.C DIODE	D21 Rated : 9 A/ 600 V	I/P:High-Line +3V =267 V AC ON/OFF O/P: (1)Full Load (2)Output Short (3)Dynamic Load Full Load/ Min. Load 90%Duty/5KHz (4)Dynamic Load 100% Load/ Min. Load 50%Duty/120Hz Ta:25°C	(1) 492V (2) 492V (3) 513V (4) 509V
4	Diode Peak Voltage	Q100/Q112 Rated : 60 A/ 100V Q152/Q154 Rated : 60 A/ 100V	AC ON/OFF I/P:High-Line +3V =267 V 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 (9)Before burst Mode Ta:25°C	Q112: VDS: (1) 60.5V (2) 64.6V (3) 66.2V (4) 59.0V (5) 59.4V (6) 65.4V (7) 63.8V (8) 58.2V (9) 63.8V Q152: VDS: (1) 55.3V (2) 54.7V (3) 55.9V (4) 55.1V (5) 55.1V (6) 55.9V (7) 53.1V (8) 53.1V (9) 52.7V Q100: VDS: (1) 58.6V (2) 59.8V (3) 63.0V (4) 61.0V (5) 60.6V (6) 63.8V (7) 59.4V (8) 68.2V (9) 66.1V Q154: VDS: (1) 56.2V (2) 55.4V (3) 59.4V (4) 58.2V (5) 55.0V (6) 59.0V (7) 57.0V (8) 63.8V (9) 54.2V
5	Input Capacitor Voltage	C5 Rated: : 220 μ / 400 V	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	(1)430V (2)390V (3)410V (4)394V
6	Control IC Voltage Test	PWM IC U3 Rated 15.3V-20V PFC IC U1 Rated 11V-20V O/P IC U100 Rated 8-24V	AC ON/OFF I/P:High-Line +3V =267 V O/P(1)FULL LOAD (2) Output Short (3)O.L.P (4)O.V.P. (5)NO LOAD (LOW LINE) Ta:25°C	U3 (1) 15.8V (2) 15.8V (3) 15.8V (4) 15.8V (5) 11.3V U100 (1) 11.70V (2) 11.50V (3) 11.50V (4) 11.50V (5) 11.50V



				(1)15.2V (2)15.2V (3)15.2V (4)15.2V (5)10.7V
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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:3.87mA I/P-FG:3.65mA O/P-FG:3.12m 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

E.M.C TEST

NO	TEST ITEM	SPECIFICATION	TEST CONDITION	RESULT
1	HARMONIC	BS EN/EN61000-3-2 GB9254	I/P:230VAC/50HZ O/P:FULL LOAD Ta:25°C	CLASS A
2	CONDUCTION	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,CNS13438,GB17625.1 EAC TP TC 020,MSIP KN32	I/P : 230 VAC (50HZ)/120 VAC (60HZ) O/P : FULL/50% LOAD Ta : 25°C	CLASS B
3	RADIATION	BS EN/EN55032(CISPR32),FCC PART 15 / CISPR22 ,CNS13438,GB17625.1 EAC TP TC 020,MSIP KN32	I/P : 230 VAC (50HZ)/120 VAC (60HZ) O/P : FULL LOAD/50% LOAD Ta : 25°C	CLASS B
4	E.S.D	BS EN/EN61000-4-2 AIR : 15KV / Contact : 8KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A
5	E.F.T	BS EN/EN61000-4-4 INPUT : 1KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A
6	SURGE	BS EN/EN61000-4-5 L-N : 1KV L,N-PE : 2KV	I/P : 230 VAC/50HZ O/P : FULL LOAD Ta : 25°C	CRITERIA A
7	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 : GST360A24 1. ROOM AMBIENT BURN-IN : 2 HRS I/P : 230VAC O/P : FULL LOAD Ta= 28.5 °C 2. HIGH AMBIENT BURN-IN : 2HRS I/P : 230VAC O/P : FULL LOAD Ta= 41.4 °C																																																																																																																																		
		<table><tr><th>NO</th><th>Position</th><th>ROOM AMBIENT Ta= 28.5 °C</th><th>HIGH AMBIENT Ta= 41.4 °C</th></tr><tr><td>1</td><td>LF1</td><td>68.3°C</td><td>77.7°C</td></tr><tr><td>2</td><td>ZR1</td><td>68.1°C</td><td>77.5°C</td></tr><tr><td>3</td><td>Q2</td><td>72.3°C</td><td>81.8°C</td></tr><tr><td>4</td><td>C1</td><td>68.1°C</td><td>77.5°C</td></tr><tr><td>5</td><td>L3</td><td>71.2°C</td><td>80.5°C</td></tr><tr><td>6</td><td>BD2</td><td>71.8°C</td><td>81.0°C</td></tr><tr><td>7</td><td>LF3</td><td>70.9°C</td><td>80.3°C</td></tr><tr><td>8</td><td>C10</td><td>71.1°C</td><td>80.4°C</td></tr><tr><td>9</td><td>L2</td><td>70.7°C</td><td>80.0°C</td></tr><tr><td>10</td><td>BD1</td><td>72.3°C</td><td>81.5°C</td></tr><tr><td>11</td><td>Q1</td><td>73.4°C</td><td>82.9°C</td></tr><tr><td>12</td><td>U1</td><td>72.7°C</td><td>82.2°C</td></tr><tr><td>13</td><td>U3</td><td>72.4°C</td><td>81.7°C</td></tr><tr><td>14</td><td>C41</td><td>71.8°C</td><td>81.1°C</td></tr><tr><td>15</td><td>C5</td><td>71.9°C</td><td>81.2°C</td></tr><tr><td>16</td><td>T1coil</td><td>74.8°C</td><td>84.2°C</td></tr><tr><td>18</td><td>T1core</td><td>71.8°C</td><td>80.9°C</td></tr><tr><td>19</td><td>LF100</td><td>70.8°C</td><td>80.8°C</td></tr><tr><td>20</td><td>C105</td><td>72.3°C</td><td>81.8°C</td></tr><tr><td>21</td><td>L4</td><td>74.0°C</td><td>83.1°C</td></tr><tr><td>22</td><td>T2 coil</td><td>75.3°C</td><td>84.6°C</td></tr><tr><td>24</td><td>T2 core</td><td>74.0°C</td><td>83.2°C</td></tr><tr><td>25</td><td>Q3</td><td>75.3°C</td><td>84.7°C</td></tr><tr><td>27</td><td>RTH2</td><td>72.4°C</td><td>81.7°C</td></tr><tr><td>28</td><td>D16</td><td>73.1°C</td><td>82.4°C</td></tr><tr><td>29</td><td>U101</td><td>72.3°C</td><td>81.6°C</td></tr><tr><td>30</td><td>Q100</td><td>75.1°C</td><td>84.7°C</td></tr><tr><td>31</td><td>U5</td><td>71.1°C</td><td>80.3°C</td></tr><tr><td>32</td><td>RTH4</td><td>73.0°C</td><td>82.1°C</td></tr><tr><td>33</td><td>C102</td><td>72.1°C</td><td>81.7°C</td></tr><tr><td>34</td><td>C114</td><td>73.5°C</td><td>82.9°C</td></tr></table>	NO	Position	ROOM AMBIENT Ta= 28.5 °C	HIGH AMBIENT Ta= 41.4 °C	1	LF1	68.3°C	77.7°C	2	ZR1	68.1°C	77.5°C	3	Q2	72.3°C	81.8°C	4	C1	68.1°C	77.5°C	5	L3	71.2°C	80.5°C	6	BD2	71.8°C	81.0°C	7	LF3	70.9°C	80.3°C	8	C10	71.1°C	80.4°C	9	L2	70.7°C	80.0°C	10	BD1	72.3°C	81.5°C	11	Q1	73.4°C	82.9°C	12	U1	72.7°C	82.2°C	13	U3	72.4°C	81.7°C	14	C41	71.8°C	81.1°C	15	C5	71.9°C	81.2°C	16	T1coil	74.8°C	84.2°C	18	T1core	71.8°C	80.9°C	19	LF100	70.8°C	80.8°C	20	C105	72.3°C	81.8°C	21	L4	74.0°C	83.1°C	22	T2 coil	75.3°C	84.6°C	24	T2 core	74.0°C	83.2°C	25	Q3	75.3°C	84.7°C	27	RTH2	72.4°C	81.7°C	28	D16	73.1°C	82.4°C	29	U101	72.3°C	81.6°C	30	Q100	75.1°C	84.7°C	31	U5	71.1°C	80.3°C	32	RTH4	73.0°C	82.1°C	33	C102	72.1°C	81.7°C	34	C114	73.5°C	82.9°C		
NO	Position	ROOM AMBIENT Ta= 28.5 °C	HIGH AMBIENT Ta= 41.4 °C																																																																																																																																	
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12	U1	72.7°C	82.2°C																																																																																																																																	
13	U3	72.4°C	81.7°C																																																																																																																																	
14	C41	71.8°C	81.1°C																																																																																																																																	
15	C5	71.9°C	81.2°C																																																																																																																																	
16	T1coil	74.8°C	84.2°C																																																																																																																																	
18	T1core	71.8°C	80.9°C																																																																																																																																	
19	LF100	70.8°C	80.8°C																																																																																																																																	
20	C105	72.3°C	81.8°C																																																																																																																																	
21	L4	74.0°C	83.1°C																																																																																																																																	
22	T2 coil	75.3°C	84.6°C																																																																																																																																	
24	T2 core	74.0°C	83.2°C																																																																																																																																	
25	Q3	75.3°C	84.7°C																																																																																																																																	
27	RTH2	72.4°C	81.7°C																																																																																																																																	
28	D16	73.1°C	82.4°C																																																																																																																																	
29	U101	72.3°C	81.6°C																																																																																																																																	
30	Q100	75.1°C	84.7°C																																																																																																																																	
31	U5	71.1°C	80.3°C																																																																																																																																	
32	RTH4	73.0°C	82.1°C																																																																																																																																	
33	C102	72.1°C	81.7°C																																																																																																																																	
34	C114	73.5°C	82.9°C																																																																																																																																	



360W AC-DC High Reliability Industrial Adaptor

GST360A series

2	OVER LOAD BURN-IN TEST	NO DAMAGE 1 HOUR (MIN)	I/P : 230 VAC O/P : 139%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= -35°C	TEST : OK
4	HIGH HUMIDITY HIGH TEMPERATURE HIGH VOLTAGE TURN ON TEST	AFTER 12 HOURS IN CHAMBER ON CONTROL 40°C/95 %R.H NO DAMAGE	I/P : 272 VAC O/P : FULL LOAD Ta= 40.4°C HUMIDITY= 95 %R.H	TEST : OK
5	TEMPERATURE COEFFICIENT	$\pm 0.03\%/^{\circ}\text{C}(0\sim 40^{\circ}\text{C})$	I/P : 230 VAC O/P : FULL LOAD	$\pm 0.0081\%/^{\circ}\text{C}(0\sim 40^{\circ}\text{C})$
6	STORAGE TEMPERATURE TEST	-40~85°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	-30~40°C	1. Thermal shock Temperature : -35°C~ +45°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, 2G 10min./1cycle, 60min. each along X, Y, Z axes	1 Carton & 1 Set (1) Waveform : Sine Wave (2) Frequency : 10~500Hz (3) Sweep Time : 10min/sweep cycle (4) Acceleration : 3G (5) Test Time : 180min in each axis (X.Y.Z) (6) Ta : 25°C	
9	CAPACITOR LIFE CYCLE	SUPPOSE C105 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= 40 °C LIFE TIME (3) I/P: 230VAC O/P: 75% LOAD Ta= 40 °C LIFE TIME (4) I/P: 230VAC O/P: 50% LOAD Ta= 40 °C LIFE TIME		(1) 144503.8HRS (2) 65667.2HRS (3) 125331HRS (4) 241097.4HRS
10	MTBF	Conducted by Parts Stress Analysis Prediction 2068.5K hrs min. Telcordia SR-332 (Bellcore) ; 269K hrs min. MIL-HDBK-217F (25°C)		
11	Ongoing Reliability Test	I/P : 230VAC O/P : 80% LOAD TA=50°C Demonstration Mean Time Between Failure : 30,000 hours		

TEST RESULT	TESTER	REVIEW	APPROVAL
PASS	Liutt		Wangdz

2020.10.1 TAG-QA-009