



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

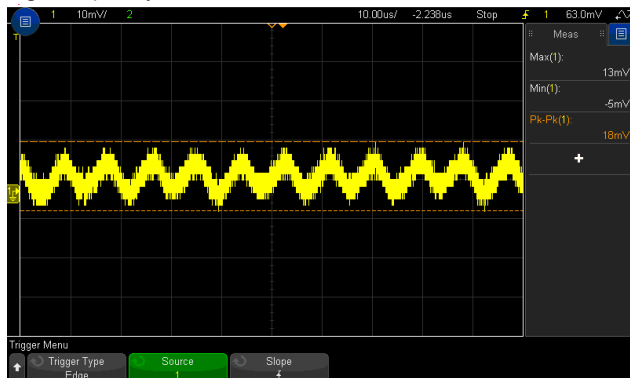
ENVIRONMENT TEST

DESIGN VERIFY TEST

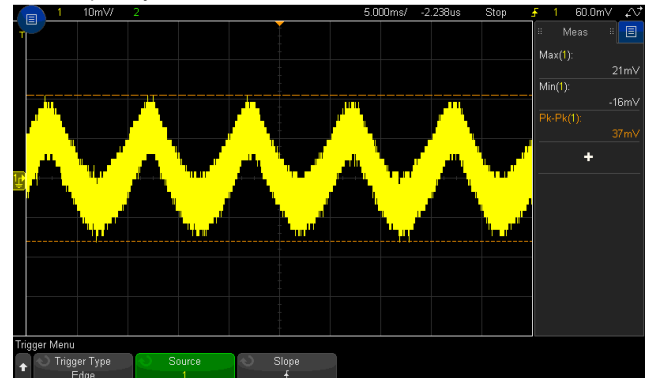
OUTPUT FUNCTION TEST

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 :

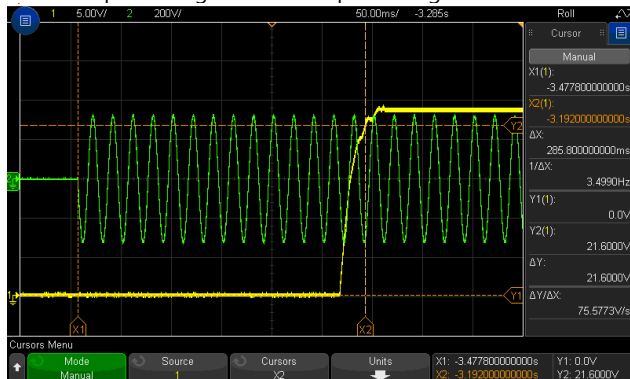


low frequency :

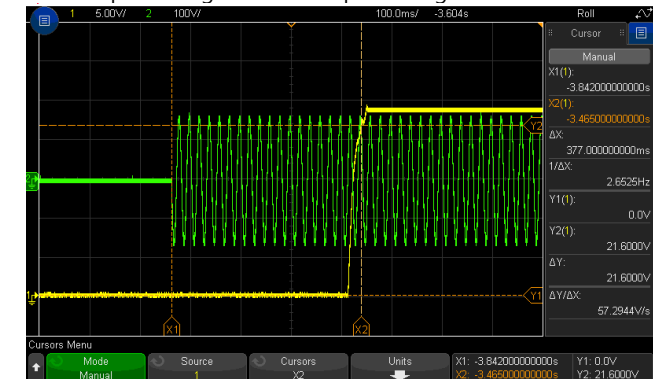


6	SET UP TIME(Max)	230VAC/2000ms 115VAC/2000ms	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	230VAC/285.8ms 115VAC/377ms
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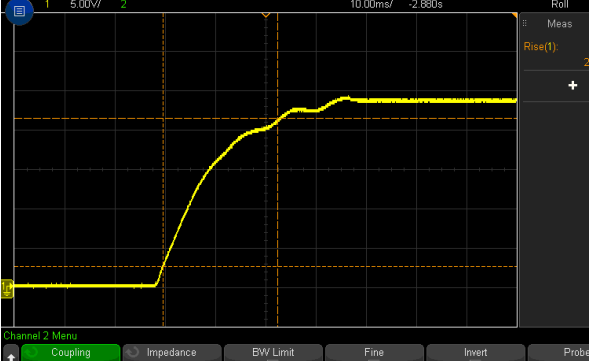
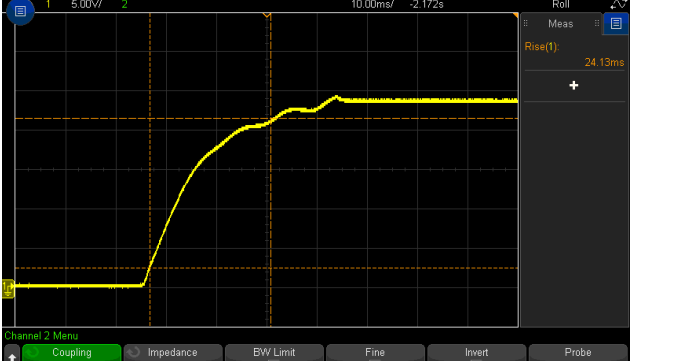
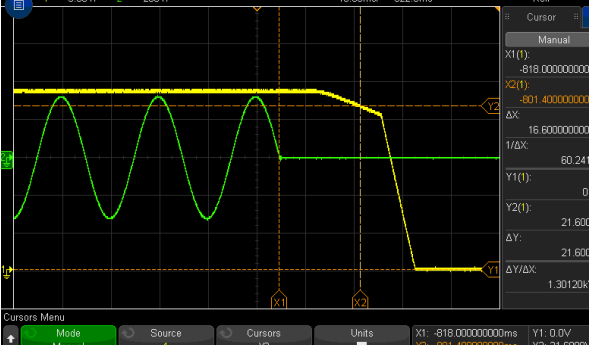
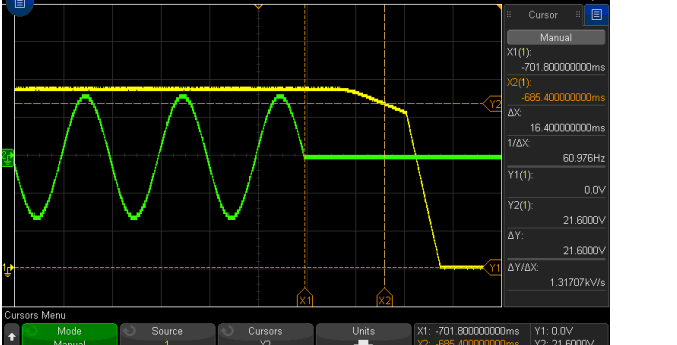
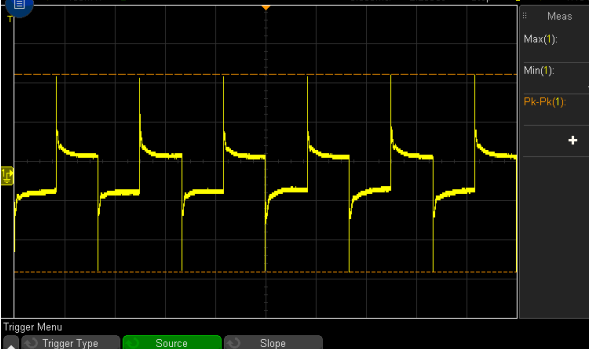
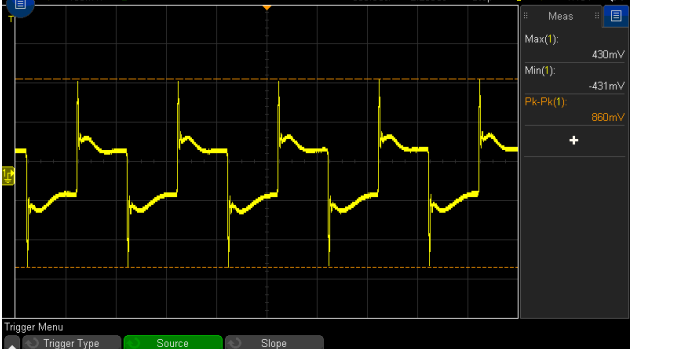
INPUT=230VAC/50HZ @ FULL LOAD
CH1 : Output Voltage CH3 : AC Input Voltage



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		
				



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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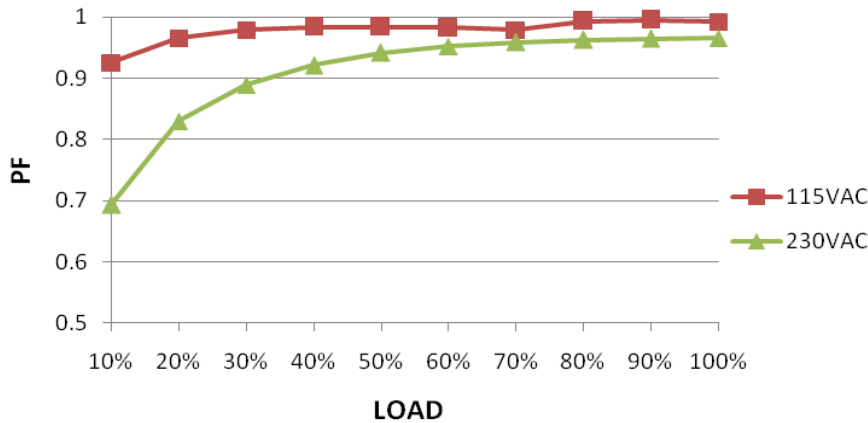
INPUT FUNCTION TEST

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	



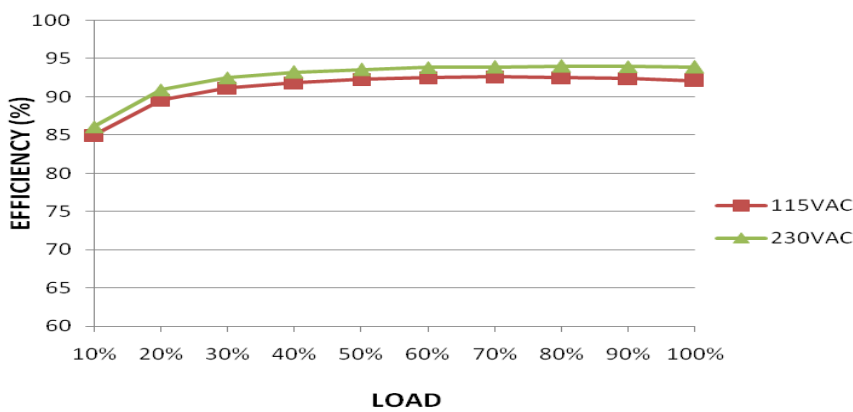
360W AC-DC High Reliability Industrial Adaptor

GST360A series



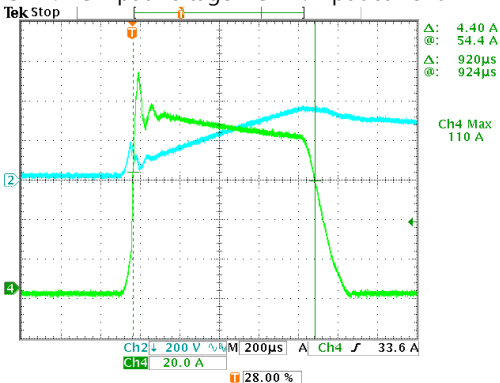
7	EFFICIENCY(Typ.)	93%	I/P:230 VAC O/P:FULL LOAD Ta:25°C	94.07%
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EFFICIENCY vs LOAD

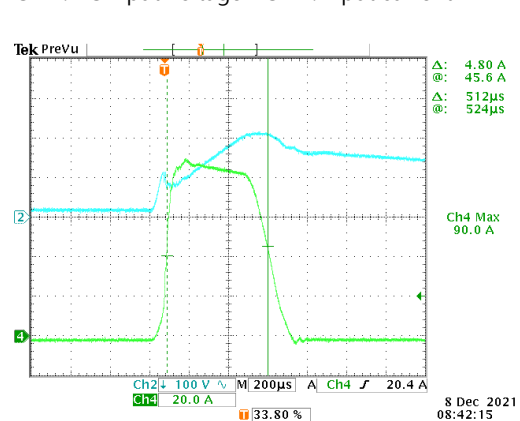


8	INRUSH CURRENT(Typ.)	230V/120A 115V/95A COLD START	I/P : 230 VAC I/P : 115 VAC O/P : FULL LOAD Ta : 25°C	I =110A/ 230VAC I =90A/ 115VAC T50=895.2us/230V
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INPUT=230VAC/50HZ @ FULL LOAD
CH2 : AC Input Voltage CH4 : Input current



INPUT=115VAC/ 60HZ @ FULL LOAD
CH2 : AC Input Voltage CH4 : Input current



8 Dec 2021 08:42:15



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



360W AC-DC High Reliability Industrial
Adaptor

GST360A series

			(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 U1



				(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	I/P-O/P: 3.6 KVAC/min I/P-FG: 2.4 KVAC/min Ta:25°C	I/P-O/P:3.87mA I/P-FG:3.65mA NO DAMAGE
2	ISOLATION RESISTANCE	I/P-O/P:500VDC>100MΩ I/P-FG: 500VDC>100MΩ	I/P-O/P: 600 VDC I/P-FG: 600 VDC Ta:25°C	I/P-O/P: 9999MΩ I/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 border="1"> <thead> <tr> <th>NO</th> <th>Position</th> <th>ROOM AMBIENT Ta= 28.5 °C</th> <th>HIGH AMBIENT Ta= 41.4 °C</th> </tr> </thead> <tbody> <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> </tbody> </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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13	U3	72.4°C	81.7°C																																																																																																																																	
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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