

























Applications

Office facilities

· Industrial equipments



Consumer electronic devices

Telecommunication devices











GB4943 MS IEC60950-1 IEC62368-1







Features

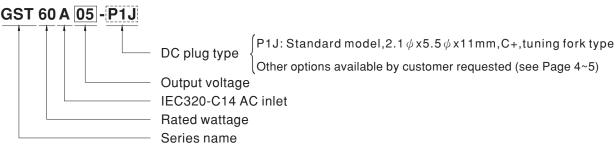
- · Global certificates
- Universal AC input / Full range
- 3 pole AC inlet IEC320-C14, Class I power unit
- No load power consumption < 0.075W
- · Energy efficiency Level VI
- · Comply with EISA 2007/DoE, NRCan, Korea K-MEPS, AU/NZ MEPS, EU ErP and CoC Version 5
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fully enclosed plastic case
- · Pass LPS
- -30~+70°C wide range working temperature
- · LED indicator for power on
- · 3 years warranty

Description

GST60A is a highly reliable, 60W desktop style single-output green adaptor series. This product is a class I power unit (with FG), equipped with a standard IEC320-C14 AC inlet and adopting the input range from 90VAC to 264VAC. The entire series supplies different models with output voltages ranging between 5VDC and 48VDC that can satisfy the demands for various types of consumer electronic devices.

With the efficiency up to 92% and the extremely low no-load power consumption below 0.075W, GST60A is compliant with USA EISA 2007/DoE, Canada NRCan, Australia and New Zealand MEPS, Korea K-MEPS, EU ErP and Code of Conduct (CoC) Version 5. The supreme feature allows the adaptor to save the energy when it is either under the operating mode or the standby mode. The entire series utilizes the 94V-0 flame retardant plastic case.GST60A is certified for the international safety regulations.

Model Encoding



File Name: GST60A-SPEC 2018-12-03



SPECIFICATION

		GST60A05-P1J	GS160A07-P1J	GST60A09-P1J	GST60A12-P1J	GST60A15-P1J	GST60A18-P1J	GST60A24-P1J	GST60A48-P	
ОИТРИТ	SAFETY MODEL NO.	GST60A05	GST60A07	GST60A09	GST60A12	GST60A15	GST60A18	GST60A24	GST60A48	
	DC VOLTAGE Note.2	5V	7.5V	9V	12V	15V	18V	24V	48V	
	RATED CURRENT	6A	6A	6A	5A	4A	3.33A	2.5A	1.25A	
	CURRENT RANGE	0 ~ 6A	0 ~ 6A	0 ~ 6A	0 ~ 5A	0 ~ 4A	0 ~ 3.33A	0 ~ 2.5A	0 ~ 1.25A	
	RATED POWER (max.)	30W	45W	54W	60W	60W	60W	60W	60W	
	RIPPLE & NOISE (max.) Note.3	120mVp-p	120mVp-p	120mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	200mVp-p	
	VOLTAGE TOLERANCE Note.4	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±3.0%	±2.5%	
	LINE REGULATION Note.5	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION	±5.0%	±5.0%	±5.0%	±3.0%	±3.0%	±3.0%	±3.0%	±2.5%	
	SETUP, RISE TIME Note.6	1000ms, 50ms /	230VAC 1	000ms, 50ms / 11	5VAC at full loa	nd				
	HOLD UP TIME (Typ.)	50ms / 230VAC 15ms / 115VAC at full load								
	VOLTAGE RANGE Note.7	7 90 ~ 264VAC 135 ~ 370VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	85.5%	88.5%	89%	89.5%	89.5%	89.5%	90.5%	92%	
INPUT	AC CURRENT (Typ.)	1.4A / 115VAC	1A / 230VAC	2						
	INRUSH CURRENT (max.)	Cold start 35A	V 115AC 65	5A / 230VAC						
	LEAKAGE CURRENT(max.)	0.75mA / 240VAC								
PROTECTION	()		ed output power							
	OVERLOAD			recovers autom	atically after fau	ult condition is re	moved			
		5.2 ~ 6.8V	7.8 ~ 10.2V	9.4 ~ 12.2V	12.6 ~ 16.2V	15.7 ~ 20.3V	18.9 ~ 24.3V	25.2 ~ 32.4V	50.4 ~ 64.8V	
11012011011	OVER VOLTAGE			voltage, re-pow			10.0 24.00	20.2 02.41	00.4 04.00	
	OVER TEMPERATURE		•	er on to recover	C1 011 to 1000 vc					
	WORKING TEMP.	·	efer to "Derating							
	WORKING HUMIDITY	,	0							
FNVIDONMENT		20% ~ 90% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C) 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	VIDDATION	10 F00H= 20		acried for COmin	aaah alana V V	7 0 4 0 0				
	VIBRATION		10min./1cycle, p		•		100050 4 40/107	10 00050 4 BIO	1040050	
	VIBRATION SAFETY STANDARDS Note. 8	UL62368-1, CS	10min./1cycle, p A C22.2, TUV El	N62368-1, BSMI	CNS14336, CC0	C GB4943, PSE		S 60950.1 , BIS	IS13252,	
	SAFETY STANDARDS Note. 8	UL62368-1, CS KC K60950-1, E	10min./1cycle, p A C22.2, TUV EI EAC TP TC 004 a	N62368-1, BSMI approved; SIRIM	CNS14336, CC0 MS IEC60950-1	C GB4943, PSE		S 60950.1 , BIS	IS13252,	
	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC	10min./1cycle, p A C22.2, TUV EI EAC TP TC 004 a I/P-FG:2KVA0	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K	CNS14336, CC0 MS IEC60950-1 VAC	C GB4943, PSE		S 60950.1, BIS	IS13252,	
	SAFETY STANDARDS Note. 8	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG,	10min./1cycle, p A C22.2, TUV EI EAC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Dhms / 500VDC /	CNS14336, CC0 MS IEC60950-1 VAC	C GB4943, PSE (optional) appr	oved		IS13252,	
	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC	10min./1cycle, p A C22.2, TUV EI EAC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K	CNS14336, CC0 MS IEC60950-1 VAC	C GB4943, PSE (optional) appr			IS13252,	
	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG,	10min./1cycle, I A C22.2, TUV EI EAC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Dhms / 500VDC /	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13	C GB4943, PSE (optional) appr	oved Test Level / Note		IS13252,	
CAEETY®	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter	10min./1cycle, I A C22.2, TUV EI EAC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Dhms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N	CNS14336, CCC MS IEC60950-1 VAC 25°C/70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Test Level / Note		IS13252,	
SAFETY &	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emis	10min./1cycle, p A C22.2, TUV EI EAC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Chms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Test Level / Note		IS13252,	
EMC	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emiss Radiated emiss	10min./1cycle, p A C22.2, TUV EI AC TP TC 004 a I/P-FG:2KVA0 O/P-FG:100M C	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Dhms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN561030-3-2,GE	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Test Level / Note Class B Class B		IS13252,	
	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emiss	10min./1cycle, If A C22.2, TUV EI EAC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C sion	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Dhms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN61000-3-2,GE	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Test Level / Note Class B Class B Class A	В	IS13252,	
EMC	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emiss Radiated emiss Harmonic current Voltage flicker Parameter	10min./1cycle, If A C22.2, TUV EI EAC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C sion	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Dhms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN61000-3-2, GE EN61000-3-3 Standard	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Test Level / Note Class B Class B Class A Test Level /Not	e		
EMC	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emiss Radiated emiss Harmonic curret Voltage flicker Parameter ESD	10min./1cycle, If A C22.2, TUV EI EAC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C sion	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Dhms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN61000-3-2, GE EN61000-3-3 Standard EN61000-4-2	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Test Level / Note Class B Class B Class A Test Level /Not Level 4, 15KV a	В		
EMC	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emiss Radiated emiss Harmonic currer Voltage flicker Parameter ESD RF field suscep	10min./1cycle, p A C22.2, TUV EI AC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C sion ion ttibility	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Dhms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN61000-3-2,GE EN61000-3-3 Standard EN61000-4-2 EN61000-4-3	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Test Level / Note Class B Class A Test Level /Note Level 4, 15KV a Level 2, 3V/m	e		
EMC	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emiss Radiated emiss Harmonic current Voltage flicker Parameter ESD RF field suscep EFT bursts	10min./1cycle, p A C22.2, TUV EI AC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C sion nt tibility	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Dhms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN61000-3-2, GE EN61000-3-3 Standard EN61000-4-2	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Class B Class A Test Level / Note Class B Class A Level 4, 15KV a Level 2, 3V/m Level 2, 1KV	e e ir; Level 4, 8KV o	contact	
EMC	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emiss Radiated emiss Harmonic currer Voltage flicker Parameter ESD RF field suscep	10min./1cycle, p A C22.2, TUV EI AC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C sion nt tibility	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Dhms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN61000-3-2,GE EN61000-3-3 Standard EN61000-4-2 EN61000-4-3	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Class B Class A Test Level / Note Class B Class A Level 4, 15KV a Level 2, 3V/m Level 2, 1KV	e	contact	
EMC	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emiss Radiated emiss Harmonic current Voltage flicker Parameter ESD RF field suscep EFT bursts	10min./1cycle, p A C22.2, TUV EI AC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C sion nt tibility	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Dhms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN61000-3-2,GE EN61000-3-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-4	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Class B Class A Test Level / Note Class B Class A Level 4, 15KV a Level 2, 3V/m Level 2, 1KV	e e ir; Level 4, 8KV o	contact	
EMC	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emiss Radiated emiss Harmonic currer Voltage flicker Parameter ESD RF field suscep EFT bursts Surge susceptib	10min./1cycle, p A C22.2, TUV EI EAC TP TC 004 a I/P-FG:2KVA(O/P-FG:100M C sion ion ttibility iility iipity	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Ohms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN61000-3-2, GE EN61000-3-3 Standard EN61000-4-2 EN61000-4-4 EN61000-4-5	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Class B Class A Test Level / Note Class B Class A Test Level / Note Level 4, 15KV a Level 2, 3V/m Level 2, 1KV Level 3, 1KV/L	e e ir; Level 4, 8KV o	contact	
EMC	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emiss Harmonic currer Voltage flicker Parameter ESD RF field suscep EFT bursts Surge susceptib Conducted suscep	10min./1cycle, p A C22.2, TUV EI AC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C sion ion ttibility tibility teptibility mmunity	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5k Chms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN61000-3-2,GE EN61000-3-3 Standard EN61000-4-2 EN61000-4-3 EN61000-4-5 EN61000-4-5 EN61000-4-6	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Class B Class A Test Level / Note Class B Class A Test Level /Note Level 4, 15KV a Level 2, 3V/m Level 3, 1KV/L Level 3, 1KV/L Level 2, 3V Level 2, 3V Level 2, 3V	e e ir; Level 4, 8KV o	contact /Line-FG	
EMC	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emiss Radiated emiss Harmonic currer Voltage flicker Parameter ESD RF field suscep EFT bursts Surge susceptib Conducted suscendance of the	10min./1cycle, p A C22.2, TUV EI AC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C sion ion ttibility tibility teptibility mmunity	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Ohms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN61000-3-2, GE EN61000-4-2 EN61000-4-2 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-8	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Class B Class A Test Level / Note Class B Class A Test Level /Note Level 4, 15KV a Level 2, 3V/m Level 3, 1KV/L Level 3, 1KV/L Level 2, 3V Level 2, 3V Level 2, 3V	e ir; Level 4, 8KV o	contact /Line-FG	
EMC (Note. 9)	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emiss Radiated emiss Harmonic currer Voltage flicker Parameter ESD RF field suscep EFT bursts Surge susceptib Conducted suscendance of the	10min./1cycle, If A C22.2, TUV EI A C22.2, TUV EI AC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C I/P-FG:100M C I/P-FG:1	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Ohms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN61000-3-2, GE EN61000-4-2 EN61000-4-2 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-8	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Class B Class A Test Level / Note Class B Class A Test Level /Note Level 4, 15KV a Level 2, 3V/m Level 3, 1KV/L Level 3, 1KV/L Level 2, 3V Level 2, 3V Level 2, 3V	e ir; Level 4, 8KV o	contact /Line-FG	
EMC	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION MTBF DIMENSION	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emiss Radiated emiss Harmonic curret Voltage flicker Parameter ESD RF field suscep EFT bursts Surge susceptib Conducted suscep Magnetic field ir Voltage dips , in 709.7K hrs min. 125*50*31.5mm	10min./1cycle, If A C22.2, TUV EI A C22.2, TUV EI AC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C I/P-FG:100M C I/P-FG:1	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Dhms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN61000-3-2, GE EN61000-4-2 EN61000-4-2 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11 (F(25°C)	CNS14336, CCC MS IEC60950-1 VAC 25°C / 70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Class B Class A Test Level / Note Class B Class A Test Level /Note Level 4, 15KV a Level 2, 3V/m Level 3, 1KV/L Level 3, 1KV/L Level 2, 3V Level 2, 3V Level 2, 3V	e ir; Level 4, 8KV o	contact /Line-FG	
EMC (Note. 9)	SAFETY STANDARDS Note. 8 WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION MTBF	UL62368-1, CS KC K60950-1, E I/P-O/P:3KVAC I/P-O/P, I/P-FG, Parameter Conducted emiss Radiated emiss Harmonic curret Voltage flicker Parameter ESD RF field suscep EFT bursts Surge susceptib Conducted susc Magnetic field ir Voltage dips , in 709.7K hrs min. 125*50*31.5mm 0.305Kg; 40pcs	10min./1cycle, If A C22.2, TUV EI AC TP TC 004 a I/P-FG:2KVAC O/P-FG:100M C I/P-FG:100M C I/P-FG:100	N62368-1, BSMI approved; SIRIM C O/P-FG:0.5K Dhms / 500VDC / Standard EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN55032(CISPR CAN ICES-3(B)/N EAC TP TC 020, EN61000-3-2, GE EN61000-4-2 EN61000-4-2 EN61000-4-5 EN61000-4-6 EN61000-4-8 EN61000-4-11 (F(25°C)	CNS14336, CCC MS IEC60950-1 VAC 25°C/70% RH 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1 IMB-3(B),CNS13 MSIP KN32 32),FCC PART 1	C GB4943, PSE (optional) appr 5 / CISPR22 3438,GB17625.1 5 / CISPR22	Class B Class A Test Level / Note Class B Class A Test Level /Note Level 4, 15KV a Level 2, 3V/m Level 3, 1KV/L Level 3, 1KV/L Level 2, 3V Level 2, 3V Level 2, 3V	e ir; Level 4, 8KV o	contact /Line-FG	

NOTE

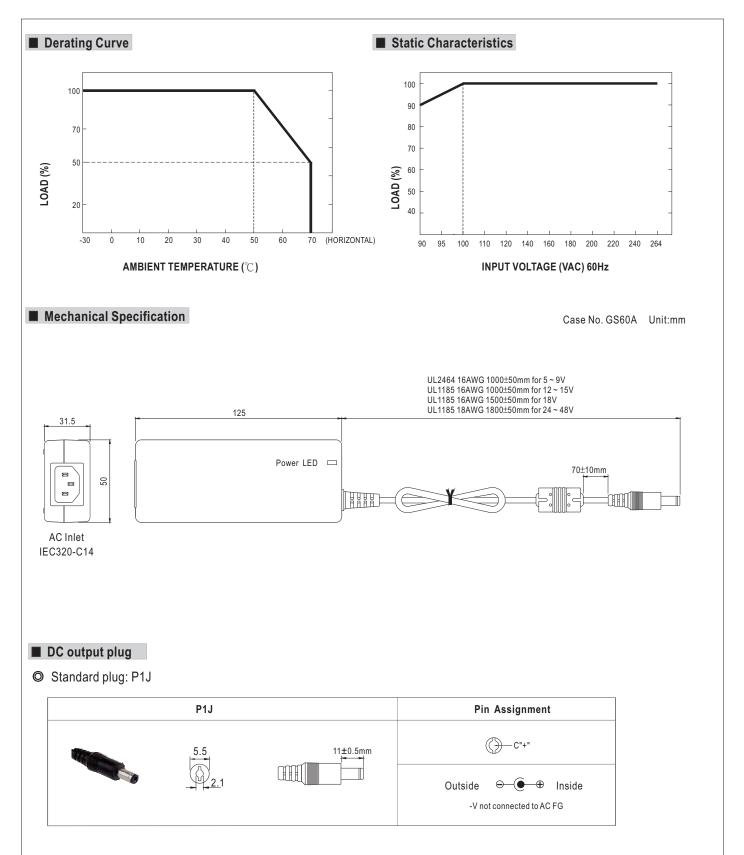
- 1. All parameters are specified at 230VAC input, rated load, 25°C 70% RH ambient.
 2. DC voltage: The output voltage set at point measure by plug terminal & 50% load.
 3. Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor.
- 4. Tolerance: includes set up tolerance, line regulation, load regulation.
- 5. Line regulation is measured from low line to high line at rated load.6. Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.
- 7. Derating may be needed under low input voltages. Pleas check the derating curve for more details.

 8. The demand for Malaysia safety is processed with the order no. GST60A

 -SIRIM by request.
- 9. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."

File Name:GST60A-SPEC 2018-12-03







Optional DC plug:

Tuning Fork Style		Type No.	А		В	С
Tulling For	турстчо.	OD		ID	L	
	C	P1I	5.5		2.1	9.5
		P1L	5.5		2.5	9.5
A	(Straight)	P1M	5.5		2.5	11.0
A B	C (Binht anniad)	P1IR	5.5		2.1	9.5
В		P1JR	5.5		2.1	11.0
		P1LR	5.5		2.5	9.5
	(Right-angled)	P1MR	5.5		2.5	11.0
Barrel	Type No.	Α		В	С	
Darrer	турстто.	OD		ID	L	
	, C ,	P2I	5.5		2.1	9.5
	100000	P2J	5.5		2.1	11.0
Δ		P2L	5.5		2.5	9.5
A A B	(Straight)	P2M	5.5		2.5	11.0
В	(Right-angled)	P2IR	5.5		2.1	9.5
		P2JR	5.5		2.1	11.0
		P2LR	5.5		2.5	9.5
		P2MR	5.5		2.5	11.0
Look	Type No.	А		В	С	
Lock S	otyle		OD		ID	L
L_A_1	Locking C	P2S(S761K)	5.53		2.03	12.06
B		P2K(761K)	5.53		2.54	12.06
SWITCHCRAFT original or equivalent		P2C(S760K)	5.53		2.03	9.52
		P2D(760K)	5.53		2.54	9.52
Center P	Type No.	Α	В	С	D	
Ochterr	iii Otylo	1,00110.	OD	ID	L	Center Pin
A	C	P4A	5.5	3.4	11.0	1.0
		P4B	6.5	4.4	11.0	1.4
<u>- D</u>	EIAJ equivalent	P4C	7.4	5.1	11.0	0.6
Min DIN 2 Din with	Type No.	F	in Assi	gnment		
Min. DIN 3 Pin witl		PIN No	o.	Outp	ut	
		R6B	1		+Vo	
$\begin{pmatrix} \circ \\ \circ \circ \end{pmatrix}$ $\begin{pmatrix} 1 \\ 3 \end{pmatrix}$ 2			2		-Vo	
3	KYCON KPPX-3P equivalent		3		+Vo	



M: DIN (B: - : :	Type No	Pin Assignment		
Min. DIN 4 Pin with Lock (male)	Type No.	PIN No.	Output	
	R7B	1	+Vo	
		2	-Vo	
1 4		3	-Vo	
KYCON KPPX-4P equivalent		4	+Vo	
Min DIN 4 Din with Look (female)	Type No.	Pin Assignment		
Min. DIN 4 Pin with Lock (female)		PIN No.	Output	
		1	+Vo	
2 3 TUTUTUTI	R7BF	2	-Vo	
2 3 14 14 1111111		3	-Vo	
KYCON KPJX-CM-4S equivalent		4	+Vo	
DIN 5 Pin (male)	Tuno No	Pin Assignment		
DIN 5 Pin (male)	Type No.	PIN No.	Output	
	R1B	1	-Vo	
		2	-Vo	
(0 ¹ 3 ³ 0)		3	+Vo	
		4	-Vo	
		5	+Vo	
Stripped and tinned leads	Type No.	Pin Assignment		
Stripped and tillled leads	Type No.	PIN No.	Output	
L (red) 1 2	by customer	1	+Vo	
L1 (black) Length of Land L1 by request (MW's standard length, L: <u>25</u> mm, L1: <u>5</u> mm)		2	-Vo	